

## Bibliography Section

---

- ADUR, A. M., WILLIAMS, F. (Chemplex Co., Rolling Meadows, Ill., 60008 USA): Effects of inhibitors on the thermal polymerization of  $\beta$ -pinene. *J. Polym. Sci. Polym. Lett. Ed.* 19 (1981) 53
- AGARWAL, R. C., AGARWAL, S. L. (Bipin Bihari Coll., Dept. Chem., Jhansi, 284001 India): Stability constants and thermodynamic functions of Gd(III), Tb(III), Dy(III), Ho(III) and Y(III) chelates with glutamic acid. *Thermochim. Acta* 44 (1981) 121
- AGRANOVA, S. A., GOL'TSIN, B. E., BARANOV, V. G. (Acad. Sci. USSR, Inst. Macromolec. Cpds., Leningrad, USSR): Study of thermal transformations of poly-acrylonitrile in dilute solutions of dimethylformamide. *Vysokomol. Soedin.* 23 (1981) 114 (in Russian)
- AHLERS, G., HOHENBERG, P. C., KORNBLIT, A. (Univ. Calif. Santa Barbara, Dept. Phys., Santa Barbara, Calif., 93106 USA): Critical thermal conductivity of  $^4\text{He}$  for  $T \geq T_\lambda$ . *Phys. Rev. Lett.* 46 (1981) 493
- AIROLDI, C., CHAGAS, A. P., FILHO, M. N. (Univ. Estadual Campinas, Inst. Quim., Campinas, 13100 S. P., Brazil): Thermochemistry of dihalide(diacetamide)zinc(II), cadmium(II), and dihalidebis(diacetamide)-mercury(II). *J. Inorg. Nucl. Chem.* 43 (1981) 89
- AVAZOV, M. I., BRYUSHKOVA, T. I., MKRTCHYAN, V. S. (Energiya Sci. Ind. Assoc., Moscow, USSR): Thermal conductivity of solid solutions of tin-[MnN]. *High Temp. transl. Teplofiz. Vysok. Temp.* 18 (1980) 411
- ALEKSANDROV, Y. A., DRUZHKOVA, O. N., BARYSHNIKOV, Y. Y., POSTNIKOVA, T. K., MAKIN, G. I., KOZYRKIN, B. I. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Thermal decomposition of trialkyl compounds of indium. *Zh. Obshch. Khim.* 50 (1980) 2642 (in Russian)
- ALEKSANDROV, Y. A., MAKIN, G. I., DRUZHKOVA, O. N., BARYSHNIKOV, Y. Y., POSTNIKOVA, T. K., KOZYRKIN, B. I. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Thermal decomposition of trialkyl compounds of gallium. *Zh. Obshch. Khim.* 51 (1981) 70 (in Russian)
- ALEXANDER, M. G., GOSHORN, D. P., ONN, D. G., GUÉRARD, D., LAGRANGE, P., EL MAKRINI, M. (Univ. Delaware, Dept. Phys., Newark, Del., 19711 USA): Synthesis and low temperature specific heat of the graphite intercalation compounds  $\text{KHgC}_3$  and  $\text{KHgC}_8$ . *Synthet. Metals* 2 (1980) 203
- ALI-MIRAFTAB, S., CHAPIRO, A., MANKOWSKI, Z. (CNRS, Chim. Macromol. Rayonnement Lab., F-94320 Thiais, France): Influence de la température sur les manifestations de l' "effet de matrice" dans la polymérisation de l'acide acrylique en solution. *Eur. Polym. J.* 17 (1981) 259
- ALLINGER, N. L., GLASER, J. A., DAVIS, H. E., ROGERS, D. W. (Univ. Georgia, Dept. Chem., Athens, Ga., 30602 USA): Heats of hydrogenation of some vinyl ethers and related compounds. *J. Org. Chem.* 46 (1981) 658
- ALLRED, G. C., WOOLLEY, E. M. (Brigham Young Univ., Dept. Chem., Provo, Utah, 84602 USA): Heat capacities of aqueous HCl, NaOH, and NaCl at 283.15, 298.15, and 313.15 K:  $\Delta C_p$  for ionization of water. *J. Chem. Thermodyn.* 13 (1981) 147
- ALLRED, G. C., WOOLLEY, E. M. (Brigham Young Univ., Dept. Chem., Provo, Utah,

- 84602 USA): Heat capacities of aqueous acetic acid, sodium acetate, ammonia, and ammonium chloride at 283.15, 298.15, and 313.15 K:  $\Delta C_p^\circ$  for ionization of acetic acid and for dissociation of ammonium ion. *J. Chem. Thermodyn.* 13 (1981) 155
- ALVAREZ, M. R., TELLO, M. J., BOCANEGRAS, E. H. (Univ. Pais Vasco, Fac. Ciencias, Dept. Fis., Bilbao, Spain): Characteristic kinetic parameters in solid  $\rightarrow$  solid + gas reactions. Compensation effects. *Thermochim. Acta* 43 (1981) 115
- AMANO, T. (Tohoku Univ., Iron Steel and Other Met. Res. Inst., Sendai, Miyagi, 980 Japan): High-temperature oxidation behaviour of Ni-2OCr-3Si alloys with small addition of cerium. *Trans. Jap. Inst. Metals* 21 (1980) 721
- AMUNDSEN, T., SALTER, J. A. M. (Univ. Oslo, Inst. Phys., P.O.B. 1048, Blindern, Oslo, Norway): Note on the low-temperature lattice thermal conductivity of potassium. *Phys. Rev. B* 23 (1981) 931
- ANDREEV, V. N., OLENIK, A. S., SUROV, Y. I., FILIPCHENKO, V. Y., FINKELSHTEIN, S. K.: Phase composition and metal-semiconductor phase transition in thermal oxidized vanadium foil. *Fiz. Tverd. Tela* 22 (1980) 3695 (in Russian)
- ANISIMOV, M. A., GORODETSKII, E. E., ZAPRUDSKII, V. M. (I. M. Gubkin Petro-chem. and Gas Ind. Inst., Moscow, USSR): Phase transitions with coupled order parameters. *Usp. Fiz. Nauk* 133 (1981) 103 (in Russian)
- ARMSTRONG, B. H. (IBM Corp., Palo Alto Sci. Ctr., 1530 Page Mill Rd., Palo Alto, Calif., 94304 USA): Two-fluid theory of thermal conductivity of dielectric crystals. *Phys. Rev. B* 23 (1981) 883
- ARNZT, H., SCHNEIDER, G. M. (Ruhr Univ. Bochum, Dept. Chem., D-4630 Bochum, FRG): Calorimetric investigations of plastic crystals at low temperatures and high pressures with differential scanning calorimetry. *Faraday Discuss. Roy. Soc. Chem.* (1980) 139
- ARRIETA, J. M., TELLO, M. J., GILI, P. (Univ. Pais Vasco, Fac. Ciencias, Bilbao, Spain): Thermal decomposition kinetic parameters of some organic decavanadates(I). *Thermochim. Acta* 44 (1981) 109
- AZBEL, M. Y. (Tel Aviv Univ., Dept. Phys. and Astron., Tel Aviv, Israel): Helix-coil transition in DNA. Thermodynamics, kinetics and DNA sequencing. *Ferroelectrics* 30 (1980) 161
- AYREY, G., MAN, F. P., POLLER, R. C. (Univ. London, Queen Elizabeth Coll., London, W8 7AH England): The influence of the organic groups on the effectiveness of organotin bis(isooctyl thioglycolates) as thermal stabilizers for PVC. *Eur. Polym. J.* 17 (1981) 45
- BAEV, A. K., MISHIN, V. Y., GAIDYM, I. L., RUVTSOV, E. M.: Vapor pressures and thermal stability of the dipivaloylmethanes of neodymium, gadolinium and ytterbium. *Sov. Radiochem. transl. Radiochim.* 22 (1980) 113
- BALLISTRERI, A., FOTI, S., MARAVIGNA, P., MONTAUDO, G., SCAMPORRINO, E. (Univ. Catania, Ist. Dipartimentale Chim. Ind., I-95125 Catania, Italy): Mechanism of thermal decomposition of poly(vinylidene chloride). *Polymer* 22 (1981) 131
- BANSAL, M. L., DEB, S. K., ROY, A. P., SAHNI, V. C. (Bhabha Atomic Res. Ctr., Solid State Phys. Sect., Bombay, 400085 India): New phase transition in Li<sub>2</sub>SO<sub>4</sub>. *Solid State Commun.* 36 (1980) 1047
- BARTKOWSKI, K., GLADUN, A., GLADUN, C., RAFALOWICZ, J., VINZELBERG, H. (Polish Acad. Sci., Inst. Low Temp. and Struct. Res., PL-53529 Wrocław, Poland): Thermal conductivity anisotropy of tin monocrystals in the temperature range 0.1 to 7 K. *Phys. Status Solidi A* 62 (1980) 207
- BARVINOK, M. S., LUKINA, L. G. (V. N. Obraztsov Railroad Transport Engn. Inst., Leningrad, USSR): Enthalpies of the formation 2-pyrrolidone complexes with transition metal chlorides. *Zh. Neorg. Khim.* 26 (1981) 253 (in Russian)
- BATBIKOVA, M. B., DRAKIN, S. I., DZHUNUSHALIEVA, T. S. (Frunze Polytech. Inst., Frunze, Kirgizia): Thermochemistry of antimony pentachloride adducts with organic molecules. *Zh. Neorg. Khim.* 25 (1980) 3295 (in Russian)
- BECKER, J. F., MEEHAN, T. (Calif. State Univ. Fullerton, Dept. Phys., Fullerton, Calif., 92634 USA): Effect of dietary fatty acid intake on phase transition temperatures in rat liver membranes. *Ferroelectrics* 30 (1980) 75

- BEDNAS, M. E., DAY, M., HO, K., SANDER, R., WILES, D. M. (Natl. Res. Council Canada, Div. Chem., Ottawa, Ontario, K1A OR9 Canada): Combustion and pyrolysis of poly(ethylene terephthalate). I. The role of flame retardants on products of pyrolysis. *J. Appl. Polym. Sci.* 26 (1981) 277
- BELOKONEVA, E. L., SIMONOV, M. A., PASHKOVA, A. V., TIMCHENKO, T. I., BELOV, N. V. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Crystal structure of high-temperature monoclinic modification on Nd<sub>2</sub>Al<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub>. *Dokl. Akad. Nauk SSSR* 255 (1980) 854 (in Russian)
- BENDICK, W., PEPPERHOFF, W. (Mannesmann Forsch. Inst. GmbH, Duisburg, GFR): Specific heat anomalies in iron-chromium-nickel alloys. *J. Phys. F* 11 (1981) 57
- BENNETT, F., LIELMEZS, J. (Texaco Canada Resources Ltd., Willesden Green, Alberta, Canada): Thermodynamic functions for methylhalosilanes. *Thermochim. Acta* 44 (1981) 43
- BERGBREITER, D. E., LYNCH, T. J. (Texas A and M Univ., Dept. Chem., College Stn., Tex., 77843 USA): Thermolysis of n-butylsilver(I)ate complexes. *J. Org. Chem.* 46 (1981) 727
- BERNHARDT, R. S., LADNER, W. R., NEWMAN, J. O. H., SAGE, P. W. (Natl. Coal Board, Coal Res. Estab., Cheltenham, GL52 4RZ Gloucestershire, England): Thermal cracking of coal-derived materials to BTX and ethylene. *Fuel* 60 (1981) 139
- BESTMANN, H. J., SCHMID, G., BÖHME, R., WILHELM, E., BURZLAFF, H. (Univ. Erlangen Nürnberg, Inst. Organ. Chem., D-8520 Erlangen, GFR): Kumulierte Ylide. X. Struktur der termischen Dimerisierungsprodukte von *N*-Aryl(triphenylphosphoranylidene)keteniminien. *Chem. Ber.* 113 (1980) 3937
- BESTMANN, H. J., WILHELM, E., SCHMID, G. (Univ. Erlangen Nürnberg, Inst. Organ. Chem., D-8520 Erlangen, GFR): Thermische Umlagerung von Tetrakis(phenylimino)cyclobutan und Kristallstruktur von Tetraphenylquadratsäureamidin. *Angew. Chem. Int. Ed.* 19 (1980) 1012
- BHATNAGAR, V. M., VERGNAUD, J. M. (Univ. St. Etienne, UER Sci., Chim. Ind. Lab., F-42023 St. Etienne, France): Étude d'un nouveau revêtement ignifuge transparent pour le bois. *Compt. Rend. C* 291 (1980) 283
- BHATTACHARYYA, A. (Univ. Illinois, Coordinated Sci. Lab., Urbana, Ill., 61801 USA): A tunnelling-state model for the specific heat capacity and thermal conductivity of amorphous materials at low temperatures. *Contemp. Phys.* 22 (1981) 117
- BINDER, K., KINZEL, W., SARBACH, S., STAUFFER, D. (KFA Jülich GmbH, Inst. Festkörperforsch., Postfach 1913, D-5170 Jülich, 1 GFR): Theory of phase transitions in diluted systems with competing interactions. *Faraday Discuss. Roy. Soc. Chem.* (1980) 261
- BITYUKOV, S. M., ZVIGINTSEV, N. V., RUNDKVIST, N. A., KHADYYEV, M. S., CHERVINSKY, V. F. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Study of phase transformations and structure of maraging 07Kh11K10M6 steel. *Fiz. Met. Metalloved.* 50 (1980) 1252 (in Russian)
- BLAKE, D. M., VINSON, A., DYE, R. (Univ. Texas, Dept. Chem., Arlington, Tex., 76019 USA): New coordinatively unsaturated acyliridium(III) compounds including a new pyruvoyl complex. Synthesis, kinetics and thermochemistry. *J. Organometal. Chem.* 204 (1981) 257
- BLANDAMER, M. J., BURGESS, J., DUCE, P. P., ROBERTSON, R. E., SCOTT, J. W. M. (Univ. Leicester, Dept. Chem., Leicester, LE1 7RH England): A re-appraisal of the heat capacity of activation and enthalpy of activation for t-butyl chloride in water-ethyl alcohol mixtures. *J. Chem. Soc. Chem. Commun.* (1981) 13
- BOETTNER, E. A., BALL, G. L. (Univ. Michigan, Dept. Environm. and Ind. Hlth., Ann Arbor, Mich., 48109 USA): Volatile combustion products of polyvinyl chloride. *Pure Appl. Chem.* 53 (1981) 597
- BOHIDAR, N., MOHANTY, S. R. (c/o S. R. Mohanty, Utkal Univ., Nucl. Chem. Lab., Bhubaneswar, 751004 India): Kinetics of thermal decomposition of gamma-irradiated barium perchlorate. *Indian J. Chem. A* 19 (1980) 1058
- BÖHM, M., PESCHKE, W., SCHARMANN, A. (Univ. Giessen, Inst. Phys. 1, D-6300 Giessen, GFR): Thermoluminescence and

- thermally stimulated conductivity in quartz induced by thermal treatment after X-irradiation. *Radiat. Eff.* 53 (1980) 67
- BOLDOG, I. I., POPEL, P. P. (T. G. Shevchenko State Univ., Kiev, UkrSSR): Thermal decomposition of ammonium alumophosphates. *Ukr. Khim. Zh.* 46 (1980) 1066 (in Russian)
- BOMSE, D. S., BEAUCHAMP, J. L. (c/o J. L. Beauchamp, Caltech., Arthur Amos Noyes Lab. Chem. Phys., Pasadena, Calif., 91125 USA): Thermochemistry and proton bond energies of gas-phase proton-bound dimers of aliphatic alcohols. *J. Phys. Chem.* 85 (1981) 488
- BOREL, M. M., BUSNOT, A., BUSNOT, F., LECLAIRE, A. (Univ. Caen, ISMRA, Crystallog. et Chim. Solide Lab. 251, F-14032 Caen, France): Etude thermochimique de quelques benzoates de cuivre(II) solvatés. *Thermochim. Acta* 43 (1981) 149
- BORGOYAKOV, V. A., BORGOYAKOV, S. A., GORENKOVA, G. A. (Abakan State Teachers Inst., Abakan, USSR): Calorimetric titration of phosphomolybdic heteropoly acid by sodium hydroxide in aqueous solution. *Zh. Neorg. Khim.* 25 (1980) 3386 (in Russian)
- BOTNER, O., DAGAN, S., FABJAN, C. W., JEFFREYS, P., KESSELER, G., MOLZON, W., OREN, Y., ROSSELET, L., SMITH, S. D., v. d. LANS, J., WANG, C. J., WILLIS, W. J., WITZELING, W., WOODY, C. (CERN, CH-1211 Geneva, 23 Switzerland): A hadron calorimeter with wavelength shifter read-out. *Nucl. Instrum. Methods* 179 (1981) 45
- BOWMER, T. N., O'DONNELL, J. H. (Bell Tel Labs. Inc., Murray Hill, N. J., 07974 USA): Thermal degradation of poly(olefin sulphone)s. I. The effect of olefin structure on the yields of volatile products. *Polym. Degrad. Stabil.* 3 (1981) 87
- BOWMER, T. N., O'DONNELL, J. H. (Bell Tel Labs. Inc., Murray Hill, N. J., 07974 USA): Post-irradiation thermal degradation of poly-(olefin sulphones). *Polymer* 22 (1981) 71
- BRANDSTETR, J., HULEJA, J., SAJÓ, I., STRAUSS, H. (TH Brno, Lehrstuhl Chem., Brno, Czechoslovakia): Rapid thermometric determination of silicon in cast iron and steel. *Fresenius Z. Anal. Chem.* 304 (1980) 385
- BURCH, R., MASON, N. B. (Univ. Reading, Dept. Chem., Reading RG6 2AD Berkshire, England): Enthalpy of hydrogen in palladium alloys at constant interstitial volume. *J. Chem. Soc. Faraday Trans. I*, 76 (1980) 2285
- BURGESS, J., SHERRY, R. (Univ. Leicester, Dept. Chem., Leicester LE1 7RH England): Enthalpies of solution of 2,2'-bipyridyl, 1,10-phenanthroline, and 1,10-phenanthroline monohydrate. *J. Chem. Soc. Perkin Trans. II* (1981) 366
- BURLET, P., QUEZEL, S., ROSSAT-MIGNOD, J., VOGT, O., LANDER, G. H. (CEN, Dept. Rech. Fondamentale, Diffract. Neutron Lab., F-38041 Grenoble, France): Magnetic phase diagram of  $USb_{1-x}Te_x$  solid solutions. *Physica B* 102 (1980) 271
- BURY, R., MAYAFFRE, A., CHEMLA, M. (Univ. Paris 6, Electrochim. Lab., Equipe Rech. 310, F-75230 Paris, 05 France): Influence of ionic association on partial molar enthalpies of symmetrical electrolytes. *Compt. Rend. Ser. C* 291 (1980) 259 (in French)
- BYSTRÖM, K. (Univ. Lund, Ctr. Chem., Thermochem. Lab., S-22007 Lund, 7 Sweden): Enthalpies of combustion, vaporization, and formation for di-n-propyl-diazene N-oxide and di-t-butyl-diazene N-oxide. *J. Chem. Thermodyn.* 13 (1981) 139
- CALLANAN, J. E., GRANVILLE, N. W., GREEN, N. H., STAVELEY, L. A. K., WEIR, R. D., WHITE, M. A. (US DOE, Bartlesville Energy Technol. Ctr., POB 1398, Bartlesville, Okla., 74003 USA): A study of cationic disorder in nitrosyl tetrafluoroborate, by comparison of the heat capacity of this salt with that of potassium tetrafluoroborate from 9 to 304 K. *J. Chem. Phys.* 74 (1981) 1911
- CALU, N., FOCA, N., LUCHIAN, M. (Polytech. Inst. Iassy, Dept. Inorgan. Chem., Splai Bahui, 71 Iassy, Romania): Kinetic data on the formation and thermal decomposition of the  $[Pd(p\text{-ON-C}_6H_4\text{-N(CH}_3)_2)_2Cl_2] \cdot H_2O$  complex. *Rev. Roum. Chim.* 25 (1980) 1171
- CAMERON, G. G., MCWALTER, I. T. (Univ. Aberdeen, AB9 1FX Scotland): A theoretical approach to the role of transfer reactions in the thermal decomposition of

- polymers. *Eur. Polymer J.* 17 (1981) 253
- CARRAHER, C. E., NORDIN, R. J. (Wright State Univ., Dept. Chem., Dayton, Ohio, 45435 USA): Comparative thermal stability and synthesis of group IVB polythioethers. *J. Macromol. Sci. A* 15 (1981) 143
- CARRON, C. J. P., LAGACHE, M. (Ecole Norm. Super., Geol. Lab., F-75231 Paris, 5 France): Étude expérimentale du fractionnement des éléments Rb, Cs, Sr et Ba entre feldspaths alcalins, solutions hydrothermales et liquides silicatés dans système Q. Ab. Or. H<sub>2</sub>O, à 2 kbar entre 700 et 800 °C. *Bull. Mineral.* 103 (1980) 571
- CASANOVA, C., WILHELM, E., GROLIER, J. P. E., KEHIAIAN, H. V. (CNRS, Ctr. Thermodynam. et Microcalorimetrie, 26 Rue 141e Ria, F-13003 Marseille, France): Excess volumes and excess heat capacities of (water + alkanoic acid). *J. Chem. Thermodyn.* 13 (1981) 241
- CASELLATO, F., MASCHERPA, A., TURRIO, L., GIRELLI, A. (Staz. Sperimentale per i Combustibili, I-20097 San Donato Milanese, Italy): Electron-attracting properties of functionalized trinitrobenzenes: spectroscopic and calorimetric study of crystalline complexes with polynuclear aromatic hydrocarbons. *Gazz. Chim. Ital.* 110 (1980) 587
- CASTAGNOLO, M., INGLESE, A., PETRELLA, G., SACCO, A. (Univ. Bari, Ist. Chim. Fis., I-70124 Bari, Italy): Volumes and heat capacities of binary liquid mixtures of water-sulfolane and water-hexamethylphosphotriamide. *Thermochim. Acta* 44 (1981) 67
- CAUDRON, R., COSTA, P., LASJAUNIAS, J. C., LEVESQUE, B. (Off. Natl. Etude et Rech. Aerosp., F-92320 Chatillon, France): Power law behaviour for the specific heat of spin glasses at very low temperatures. *J. Phys. F* 11 (1981) 451
- CHAKHALYAN, O. K., DANKOVA, I. N., PUCHKOV, L. V. (Lensovet Technol. Inst., Leningrad, USSR): Thermochemistry of Na<sub>2</sub>SO<sub>4</sub>-H<sub>2</sub>O, K<sub>2</sub>CO<sub>3</sub>-H<sub>2</sub>O systems. *Zh. Obshch. Khim.* 50 (1980) 2393 (in Russian)
- CHAUVET, A., PERRIER, R., MASSE, J. (Fac. Pharm. Montpellier, Chim. Gén. et Minérale Lab., F-34060 Montpellier, France): Etude thermoanalytique de quelques stéroïdes. I. Testostérone et dérivés. *Thermochim. Acta* 43 (1981) 161
- CHERNOGORENKO, V. B., MUCHNIK, S. V., LYNCHAK, K. A., KLIMAK, Z. A., IVANCHENKO, V. G. (Acad. Sci. UkrSSR, Inst. Mat. Technol., Kiev 180, UkrSSR): Preparation of phosphides in the combustion regime. *Mater. Res. Bull.* 16 (1981) 1
- CHIODELLI, G., CAMPARI, G. (Univ. Pavia, Ist. Chim. Fis. e Elettrochim. CNR, I-27100 Pavia, Italy): Low temperature AC conductivity device. *J. Phys. E* 14 (1981) 31
- CHRISTENSEN, N. E., DE CHRISTENSEN, N. S. (Tech. Univ. Denmark, Phys. Lab., 1 DK-2800 Lyngby, Denmark): Dynamic-conductance anomalies in Pd films: observation of a phase transition. *J. Phys. C* 13 (1980) 6553
- CHU, B., LIN, Y. H., DINAPOLI, A., NOSE, T., KUWAHARA, N. (Sunny Stony Brook, Dept. Chem., Stony Brook, N. Y., 11794 USA): Light scattering studies of polymer phase transitions. *Ferroelectrics* 30 (1980) 255
- CIMINO, A., DE ANGELIS, B. A., GAZZOLI, D., VALIGI, M. (Univ. Roma, Ist. Chim. Gen. ed Inorgan. CNR, Ctr. Studio Struttura ed Attiv. Catalit. Sist. Ossidi, I-0010 Roma, Italy): Photoelectron spectroscopy (XPS) and thermogravimetry (TG) of pure and supported rhenium oxides. 2. Rhenium oxides on titanium dioxide. *Z. Anorg. Allg. Chem.* 471 (1980) 208
- CLEARFIELD, A., DAY, G. A., RUVARAC, A., MILONJIC, S. (Texas A and M Univ., Dept. Chem., College Stn., Tex., 77843, USA): On the mechanism of ion exchange in zirconium phosphates. XXIX. Calorimetric determination of heats of K<sup>+</sup>-H<sup>+</sup> exchange with  $\alpha$ -zirconium phosphate. *J. Inorg. Nucl. Chem.* 43 (1981) 165
- CLEAVER, K. D., DAVIES, J. E. D. (Univ. Lancaster, Dept. Chem., Lancaster, LA1 4YA England): Solid state vibrational spectroscopy. 8. A thermochemical and vibrational spectroscopic study of the solid state thermal decompositions of alkali metal peroxydisulphates. *J. Raman Spectrosc.* 9 (1980) 376
- CLEAVER, K. D., DAVIES, J. E. D. (Univ. Lancaster, Dept. Chem., Lancaster LA1 4YA England): Solid state vibrational spectroscopy. 9. A kinetic study, using Raman spectroscopy, of the solid state thermal decomposition of alkali metal peroxydisulphates. *J. Raman Spectrosc.* 9 (1980) 381

- CLEAVER, K. D., DAVIES, J. E. D. (Univ. Lancaster, Dept. Chem., Lancaster, LA1 4YA England): Solid state vibrational spectroscopy. 10. A kinetic study, using Raman spectroscopy, of the solid state thermal decompositions of sodium and potassium dithionate. *J. Raman Spectrosc.* 9 (1980) 384
- CODY, C. A., DICARLO, L., DARLINGTON, R. K. (N. L. Ind. Inc., Div. Chem., POB 700 Hightstown, N. J., 08520 USA): Differential scanning calorimetric and Raman spectroscopic study of polymorphism in  $\text{Na}_2\text{SO}_4$ . *J. Inorg. Nucl. Chem.* 43 (1981) 398
- COHEN, S., KIMIZUKA, N., STEINFINK, H. (Univ. Texas, Dept. Chem. Engn., Austin, Tex., 78712 USA): The crystal structure and stability of  $\text{Ba}_5\text{Fe}_4\text{S}_{11}$ . *J. Solid State Chem.* 35 (1980) 181
- COLMENERO, J., BARANDIARÁN, J. M. (Fac. Ciencias Quím., Dept. Fis., Alza, Spain): Thermal properties and crystallization processes in semiconducting Al-As-Te glasses. *Phys. Status Solidi A* 62 (1980) 323
- CONIGLIO, A. (Mostra Doltremare, Nazl. Strut. Mat., Padiglione 19, I-80125 Napoli, Italy): Thermal phase transition of the dilute s-state potts and n-vector models at the percolation threshold. *Phys. Rev. Lett.* 46 (1981) 250
- COORAY, B. B., SCOTT, G. (Univ. Aston, Dept. Chem., Birmingham B4 7ET, W. Midland, England): The effect of thermal processing on PVC. VII. Reactive antioxidants as thermal stabilizers. *Eur. Polym. J.* 16 (1980) 1145
- COORAY, B. B., SCOTT, G. (Univ. Aston, Dept. Chem., Birmingham B4 7ET, W. Midlands, England): The effect of thermal processing on PVC. VIII: The role of thermally formed peroxides on photo-degradation. *Polym. Degrad. Stabil.* 3 (1981) 127
- CORDFUNKE, E. H. P., OUWELTJES, W. (Netherlands Energy Res. Fdn. ECN, Petten, Netherlands): Standard enthalpies of formation of uranium compounds. VI.  $\text{MUO}_3$  ( $M = \text{Li}, \text{Na}, \text{K}, \text{and Rb}$ ). *J. Chem. Thermodyn.* 13 (1981) 187
- CORDFUNKE, E. H. P., OUWELTJES, W. (Netherlands Energy Res. Fdn. ECN, Petten, Netherlands): Standard enthalpies of formation of uranium compounds. VII.  $\text{UF}_3$  and  $\text{UF}_4$  (by solution calorimetry). *J. Chem. Thermodyn.* 13 (1981) 193
- COTTERILL, R. M. J., TALLON, J. L. (Tech. Univ. Denmark, Dept. Struct. Properties Mat., DK-2800 Lyngby, Denmark): Melting and the liquid and glassy states. *Faraday Discuss. Chem. Soc.* (1980) 241
- CRİADO, J. M. (Univ. Seville, Fac. Quim., CSIC, Ctr. Coordinado, Dept. Quim. Inorgan., Seville, Spain): Remarks on the relationship between isothermal and non-isothermal kinetic results. A new method for the kinetic analysis of isothermal data. *Thermochim. Acta* 43 (1981) 111
- CUCCURU, A., DIVERSI, P., INGROSSO, G., LUCHERINI, A. (Ctr. Autonomo Militaire Energia Nucl., S. Piero Grado, I-56100 Pisa, Italy): Thermal decomposition of rhodium(III) and iridium(III) saturated metallacycles. *J. Organometal. Chem.* 204 (1981) 123
- CZARNOWSKI, J., SCHUHMACHER, H. J. (Inst. Invest. Fis. Quim. Teor. y Aplicad., La Plata, Buenos Aires, Argentina): The kinetics of sensitized  $\text{CO}_2$  formation which occurs when  $\text{SF}_5\text{O}_2\text{SF}_5$  thermally decomposes in a mixture of O-2 and CO. *Z. Phys. Chem.* 123 (1980) 91
- DAMLE, H. G., KATTI, S. S. (c/o S. S. Katti, Natl. Chem. Lab., Poona 411008 Maharashtra, India): Ion complexes in molten mixtures of  $\text{AgI}$  and  $\text{SrI}_2$  electromotive force, differential thermal analysis and X-ray diffraction measurements. *Indian J. Chem. A* 19 (1980) 987
- DAS, S. K., ROY, D. (Presidency Coll., Solid State Phys. Res. Ctr., Calcutta, 700073 India): Pseudopotential study of lattice parameter and heat of formation for substitutional alloys. *Pramana* 15 (1980) 495
- DAUBEN, W. G., MICHNO, D. M., OLSEN, E. G. (Univ. Calif. Berkeley, Dept. Chem., Berkeley, Calif., 94720 USA): Thermal isomerization of cyclic cistranscistrinienes. *J. Org. Chem.* 46 (1981) 687
- DAUDIN, B. (CEN, Serv. Basses Temp., F-38041 Grenoble, France): Thermal conductivity of amorphous  $\text{La}_{70}\text{Cu}_{30}$ . *Solid State Commun.* 37 (1981) 149
- DEBS, M. (Univ. Libanaise, Fac. Sci., Dept. Phys., Beirut, Libanon): Réalisation d'un porte-échantillon et étude de la relaxation  $\beta$  du polyethyline térephthalate à basses

- températures. *Nuovo Cimento B* 61 (1981) 141
- DEL CERRO, J., RAMOS, S., ZAMORA, M. (Univ. Sevilla, Fac. Fis., Dept. Termol., Sevilla, 4 Spain): Calorimetric method for the determination of the pyroelectric coefficient. Study of triglycine sulfate. *Phys. Status Solidi A* 62 (1980) 149
- DELLA VEDOVA, C. O., LESK, J. H., VARETTI, E. L., AYMONINO, P. J., PIRO, O. E., RIVERO, B. E., CASTELLANO, E. E. (c/o P. J. Aymonino, Univ. Nacl. La Plata, Fac. Ciencias Exactas, Dept. Quim., 47 esquina 115, 1900 La Plata, Argentina): TGA-DTA, infrared and X-ray powder diffraction studies on strontium nitro-prusside and its hydrates. *J. Mol. Struct.* 70 (1981) 241
- DENIAU, J., DUONG, K. V. N., GAUDEMÉR, A., BOUGEARD, P., JOHNSON, M. D. (c/o M. D. Johnson, Univ. Paris, Chim., Coordinat. Bio Organ. Lab. 255, F-91405 Orsay, France): Thermal and photochemical reactions of organocobaloximes with diphenyl disulphide and diphenyl diselenide. *J. Chem. Soc. Perkin Trans. II* (1981) 393
- DEPORTILLA, V. S., QUEVEDO, M. P., STEPANOV, V. I. (Natl. Autonomous Univ. Mexico, Inst. Geofis., Mexico City, 20 Mexico): The structure of bayldonite—chemical analysis, differential thermal analysis, and IR spectroscopy. *Amer. Mineral.* 66 (1981) 148
- DEULIN, G. I., DUSHIN, R. S., KRYLOV, V. N., PITALEV, V. G., POSPELOV, A. A., CHUKHLANTSEV, V. G.: Influence of heat treatment on the composition and properties of amorphous niobium phosphate. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 53 (1980) 371
- DIETRICH, H. (Max Planck Gesell., Fritz Haber Inst., Faradayweg 4-6, D-1000 Berlin 33): Low temperature study of the structure of crystalline ethyllithium. *J. Organometal. Chem.* 205 (1981) 291
- DIMARZIO, E. A. (NBS, Natl. Measurement Lab., Washington, D.C., 20234 USA): Self-assembly in biological systems as examples of phase transitions in polymers. *Ferroelectrics* 30 (1980) 183
- DOKIĆ, P., SHERMAN, P. (Univ. Novi Sad, Fac. Technol., YU-21000 Novi Sad, Yugoslavia): Study on thermal induced phase inversion of concentrated O-W emulsions stabilized by various tween emulsifiers. *Colloid Polym. Sci.* 258 (1980) 1159
- DOLBIER, W. R., SELLERS, S. F., AL-SADER, B. H., ELSHEIMER, S. (Univ. Florida, Gainesville, Fla., 32611 USA): Thermal rearrangement of 1,1-difluorospiropentane. *J. Amer. Chem. Soc.* 103 (1981) 715
- DOLLIMORE, D., MASON, J. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford M5 4WT Lancashire, England): Thermal decomposition of oxalates. 15. Effect of container material on DTA results for thermal decomposition of magnesium oxalate. *Thermochim. Acta* 43 (1981) 183
- DONESCU, D., GOSA, K., DIACONESCU, I., CARP, N., MAZARE, M. (Ctr. Plast Mat. Res., Splainul Independenti 202, R-77208 Bucharest, Romania): A study of degradation reaction of hydroxyethyl-cellulose in presence of potassium persulphate. *Colloid Polym. Sci.* 258 (1980) 1363
- DOROVSKA-TARAN, V., RAYKOVA, D., TISHKOV, S., BLAGOEV, B. (Bulgarian Acad. Sci., Inst. Organ. Chem., BU-1113 Sofia, Bulgaria): Chemical enthalpy-entropy compensation effect in the hydrolysis of p-nitrophenyl carboxylates catalyzed by alkaline mesenteropeptidase. *Bioorg. Chem.* 9 (1980) 482
- DOVE, M. T., RAE, A. I. M. (Univ. Birmingham, Dept. Phys., P. O. B. 363, Birmingham, B15 2TT W. Midland, England): Structural phase transitions in malononitrile. *Faraday Discuss. Roy. Soc. Chem.* (1980) 98
- DOVICHI, N. J., HARRIS, J. M. (c/o J. M. Harris, Univ. Utah, Dept. Chem., Salt Lake City, Utah, 84112 USA): Time-resolved thermal lens calorimetry. *Anal. Chem.* 53 (1981) 106
- DOVLETOV, K., MARKHUDA, Y. A., MIKHAILOV, A. R. (Acad. Sci. TaSSR, Inst. Engn. Phys., Dushanbe, TaSSR): Thermal conductivity and electrophysical properties of solid solutions. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Norg. Mater.* 16 (1980) 546
- DOYLE, J. A., HUTCHINGS, D. J., MAYR, J. C., WORMALD, C. J. (Univ. Bristol, Sch. Chem., Bristol BS8 1TS Avon, England): The enthalpy of mixing of (acetone + trichloromethane) vapour. *J. Chem. Thermodyn.* 13 (1981) 261

- DUERIG, T. W., TERLINDE, G. T., WILLIAMS, J. C. (Brown Boveri and CIE A. G., Baden, Switzerland): Phase transformations and tensile properties of Ti-10V-2Fe-3Al. *Metal. Trans. A* 11 (1980) 1987
- DUMITRIU, M., DĂRĂMGĂ, M., PĂSTRĂVANU, M., LIXANDRU, T. (Polytech. Inst. Jassy, Dept. Organ. and Macromolec. Chem., Calea 23 August 11, Jassy, Romania): On the thermal stability of some new polyazimes and polyazomethines. *Rev. Roum. Chim.* 25 (1980) 981
- DURALRAJ, B., VENKATARAO, K. (Univ. Madras, AC Coll., Dept. Phys. Chem., Madras, 600025 India): The kinetics and mechanisms of thermal degradation of some divalent metal salts of mono(hydroxyethyl)phthalate. *Thermochim. Acta* 43 (1981) 125
- DUYNSTEE, E. F. J., ESSER, M. L., SCHELLEKENS, R. (Dutch State Min., Cent. Lab., Geleen, Netherlands): Thermal decomposition of diisopropyl peroxydicarbonate. CIDNP and product studies. *Eur. Polym. J.* 16 (1980) 1127
- ECHARRI, A. L., TELLO, M. J., GILI, P. (Univ. País Vasco, Fac. Ciencias, Dept. Fis., Bilbao, Spain): Specific heat behaviour of  $K_2SeO_4$  in the 48–800 K temperature range a new phase transition. *Solid State Commun.* 36 (1980) 1021
- EDWARDS, S. F., KING, P. R., PINCUS, P. (Univ. Cambridge, Cavendish Lab., Madingley Rd., Cambridge, CB3 0HE, England): Phase changes in polyampholytes. *Ferroelectrics* 30 (1980) 3
- EFIMOV, M. E., KISLOVA, G. N., MEDVEDEV, V. A. (Acad. Sci. UkrSSR, Inst. Marine Hydrophys., Sevastopol, UkrSSR): The standard enthalpies of formation of crystalline aluminium(III) bromide and aluminium(III) iodide. *J. Chem. Thermodyn.* 12 (1980) 1149
- ELVECROG, J. M., CARR, P. W. (Univ. Minnesota, Dept. Chem., Minneapolis, Mn. 55455 USA): A catalimetric thermochemical unsegmented flow system based on the iodide-catalyzed cerium(IV)-arsenic(III) reaction. *Anal. Chim. Acta* 121 (1980) 135
- ERDOS, P., SOLT, G., ZOLNIEREK, Z., BLAISE, A., FOURNIER, J. M. (Univ. Lausanne, Inst. Phys. Theor., CH-1000 Lausanne, Switzerland): Magnetic susceptibility and the phase transition of  $NpO_2$ . *Physica B + C* 102 (1980) 164
- FEDORIKHIN, V. A., TARASKIN, S. A., STRUKOV, B. A., SOROKINA, E. A. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Impurity effect on specific heat of TGS single crystals. *Fiz. Tverd. Tela* 22 (1980) 3544 (in Russian)
- FESTA, C., CECCANTI, N. (c/o N. Ceccanti, Univ. Pisa, Ist. Chim., I-56100 Pisa, Italy): A differential calorimeter for measuring heats of solution with a pulse time modulation system. *Ann. Chim.* 70 (1980) 431
- FEVRIER, A., RENARD, J. C. (Labs. Marcoussis, F-91460 Marcoussis, France): Thermal, electrical and magnetic behaviour of a superconducting winding. *IEEE Trans. Magn.* 17 (1981) 224
- FILIPPOV, L. P. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Relation of surface tension to compressibility and heat of evaporation of liquids. *Zh. Fiz. Khim. SSSR* (1980) 2979 (in Russian)
- FILIPPOV, V. K.: Heat capacity of heterogeneous systems and thermal analysis. *Vest. Leningr. Univ.* (1980) 64 (in Russian)
- FLETCHER, J. R., GRIMSHAW, J. M., KNOWLES, A. P., MOORE, W. S. (Univ. Nottingham, Dept. Phys., Nottingham, NG7 2RD, England): An EPR study of  $3d^4$  ions in  $Al_2O_3$  by thermal detection. *J. Phys. C* 13 (1980) 6391
- FLORY, P. J. (Stanford Univ., Stanford, Calif., 94305 USA): Crystalline and mesomorphic phases in polymers. *Ferroelectrics* 30 (1980) 1
- FLOWERS, M. C., HONEYMAN, M. R. (Univ. Southampton, Dept. Chem., Southampton SO9 5NH Hampshire, England): Kinetics of the thermal gas-phase decomposition of 2,3-epoxy-1,1,1-trifluoropropane. *J. Chem. Soc. Faraday Trans. I*, 76 (1980) 2290
- FRIDLJANDER, I. N., KOLPACHEV, A. A., VUKOLOVA, T. V., SHARABKOVA, V. D.: Thermal stability of rapidly cooled alloys of aluminium with manganese or chromium. *Russ. Met. transl. Izv. Akad. Nauk SSSR Met.* (1979) 132
- FUCHS, R., PEACOCK, L. A. (Univ. Houston, Dept. Chem., Houston, Tex., 77004 USA):

- Heats of vaporization of esters by the gas chromatography—calorimetry method. *Can. J. Chem.* 58 (1980) 2796
- GABORIAUD, F., VANTELON, J. P. (CNRS Grp. Rech. Chim. Phys. Combust. 160 F-86800 St. Julien l'Ars, France): Thermal degradation of polyurethane based on MDI and propoxylated trimethylol propane. *J. Polym. Sci. Polym. Chem. Ed.* 19 (1981) 139
- GALIULLINA, R. F., PANKRATOVA, V. N., STEPPOVIK, L. P., DODONOV, V. A. (N. I. Lobachevskii State Univ., Gorki, USSR): Preparation and thermal decomposition of tribenzylsiloxy-derivates of zinc, cadmium and aluminium. *Zh. Obshch. Khim.* 51 (1981) 74 (in Russian)
- GALLAGHER, P. K., WARNE, S. ST. J. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): Application of thermomagnetometry to the study of siderite. *Mater. Res. Bull.* 16 (1981) 141
- GANESAN, R., VISWANATHAN, S., MOHAMED FAROOK, S. (Univ. Madras, Dept. Phys. Chem., Madras, 600025 Tamil Nadu, India): Enthalpy and entropy of the equilibrium  $\text{Br}_2 + \text{Br}^- \rightleftharpoons \text{Br}_3^-$  in acetic acid—water mixtures. *J. Inorg. Nucl. Chem.* 43 (1981) 619
- GANYUSHIN, L. A., ROMM, I. P., GURYANOVA, E. N., SHIFRINA, R. R., KOPYLOV, V. V. (L. Y. Karpov Physicochem. Res. Inst., Moscow, USSR): Heats of formation, dipole moments and infrared spectra of aluminium bromide complexes with N-substituted imides. *Zh. Obshch. Khim.* 50 (1980) 2755 (in Russian)
- GARDNER, J. W., ANDERSSON, A. C. (Univ. Illinois, Dept. Phys., Urbana, Ill., 61801 USA): Low-temperature specific heat and thermal conductivity of neutron-irradiated crystalline quartz. *Phys. Rev. B* 23 (1981) 474
- GARDNER, J. W., ANDERSON, A. C. (Xerox Corp., Wilson Ctr. Technol., Rochester, N. Y., 14644 USA): Effect of neutron irradiation on the low-temperature specific heat and thermal conductivity of magnesium oxide. *Phys. Rev. B* 23 (1981) 1988
- GARN, P. D. (Univ. Akron, Dept. Chem., Akron, Ohio, 44304 USA): Reporting temperature calibration data in thermogravimetry. *Anal. Chem.* 53 (1981) A 387
- GATHER, B., LEGENDRE, B., BLACHNIK, R. (Gesamthsch. Siegen, Fachbereich Anorgan. Chem., D-5900 Siegen, 21 GFR): Heats of mixing in ternary systems. I. Enthalpies of mixing of indium-antimony-tellurium. *J. Less-Common Metals* 77 (1981) 71
- GAVRICHEV, K. S., GORBUNOV, V. E., BAKUM, S. I. (N. S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR): Low-temperature heat capacity and thermodynamic properties of cesium gallide  $\text{CsGaH}_4$ . *Zh. Neorg. Khim.* 26 (1981) 274 (in Russian)
- GEORGE, M. V., MITRA, A., SUKUMARAN, K. B. (Indian Inst. Technol., Dept. Chem., Kanpur, 208016 Uttar Pradesh, India): Thermal and photochemical transformations of hetero-1,3,5-hexatrienes into—5-membered rings — possible pericyclic reactions. *Angew. Chem. Int. Ed.* 19 (1980) 973
- GERSHANOVICH, A. Y., SUGLOBOVA, I. G.: Thermographic and X-ray diffraction investigation of binary mixtures formed by thorium tetrachloride with chlorides of potassium, rubidium and cesium. *Sov. Radiochem. transl. Radiokhim.* 22 (1980) 201
- GILI, P., SANTIAGO, C., ROMÁN, P., LORENTE, L. (Univ. La Laguna, Dept. Quim. Inorgan., La Laguna, Spain): Thermogravimetric study of some dichromates and molybdates of organic bases. *Thermochim. Acta* 43 (1981) 221
- GLADUN, C., MÄGDE, H., VINZELBERG, H. (Akad. Wissenschaft. DDR, Zent. Inst. Festkörperphys. und Werkstoffforsch., DDR-8027 Dresden, GDR): Thermal conductivity of niobium single crystals in a magnetic field. *Phys. Status Solidi A* 62 (1980) 503
- GLASSER, M. L. (Clarkson Coll. Technol., Potsdam, N.Y., 13676 USA): Specific heat of electron gas of arbitrary dimensionality. *Phys. Lett. A* 81 (1981) 295
- GLAZOV, V. M., AIVAZOV, A. A., KOL'TSOV, V. B. (Moscow Electr. Engn. Inst., Moscow, USSR): Investigation of the electrical conductivity and Hall effect in indium antimonide near the melting point in solid and liquid states. *Sov. Phys. Semicond. transl. Fiz. Tekhn. Polupr.* 14 (1980) 909

- GLAZYRIN, M. P., KRASILNIKOV, V. N., IVAKIN, A. A. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Chem., Sverdlovsk, USSR): Phase composition, phase diagram and the nature of compounds of the  $K_2S_2O_7 \cdot V_2O_5$  system. *Zh. Neorg. Khim.* 35 (1980) 3368 (in Russian)
- GMELIN, E., GUCKELBERGER, K. (Max Planck Inst. Festkörperforsch., Heisenbergstr. 1, D-7000 Stuttgart, 80 GFR): Detection of tunnelling systems in  $Li_3N$  by excess specific heat. *J. Phys. C* 14 (1981) L 21
- GMELIN, E., RIPKA, K. (Max Planck Inst. Festkörperforsch., Heisenbergstr. 1, D-7000 Stuttgart, 80 GFR): A simple versatile sample holder of low heat capacity for adiabatic calorimetry. *Cryogenics* 21 (1981) 117
- GMELIN, E., RÖDHAMMER, P. (Max Planck Inst. Festkörperforsch., Heisenbergstr. 1, D-7000 Stuttgart, 80 GFR): Automatic low temperature calorimetry for the range 0.3–320 K. *J. Phys. E* 14 (1981) 223
- GODOVSKY, Y. K. (L. Y. Karpov Physico-chem. Res. Inst., Moscow, USSR): Calorimetric study of rubber elasticity. *Polymer* 22 (1981) 75
- GOEDE, D., MÜLLER, R. (Humboldt Univ. Berlin, Sekt. Phys., Bereich Halbleiter-opt., DDR-1020 Berlin): Calorimetric measurement of luminescence quantum efficiency in crystals. *Phys. Status Sol. B* 103 (1981) K 75
- GOGOLEWSKI, S., CZERNIAWSKA, K., GASIOREK, M. (Tech. Univ. Zielona Gora, Polymers Lab., PL-65246 Zielona Gora, Poland): Effect of annealing on thermal properties and crystalline structure of polyamides-nylon-12 (polyalarolactam). *Colloid Polym. Sci.* 258 (1980) 1130
- GOLDSMITH, J. R. (Univ. Chicago, Dept. Geophys. Sci., Chicago, Ill., 60637 USA): Thermal stability of dolomite at high temperatures and pressures. *J. Geophys. Res.* 85 (1980) 6949
- GOODFIELD, J. A. C., REES, G. J. (Polytech. Wales, Dept. Chem. Engn., Pontypridd, CF37 1DL Glamorganshire, Wales): Pyrotechnic reaction of lead monoxide and silicon: measurement of reaction temperature. *Fuel* 60 (1981) 151
- GOTO, Y., SAWAGUCHI, E. (Hokkaido Univ., Fac. Sci., Dept. Phys., Sapporo, Hokkaido, 060 Japan): Phase transition in ferroelectric  $RbH_3(SeO_3)_2$ . *J. Phys. Soc. Jap.* 49 (1980) 2255
- GRADDON, D. P., MICHELONI, M., PAOLETTI, P. (Univ. Firenze, Ist. Chim. Gen. ed Inorgan., I-50121 Firenze, Italy): Zinc complexes of four tetra-aza macrocycles: enthalpies of formation in acetonitrile solution. *J. Chem. Soc. Dalton Trans.* (1981) 336
- GRASSO, D., ABATE, L., FASONE, S., GANDOLFO, C., SIRACUSA, G. (Univ. Catania, Ist. Dipartimentale Chim. e Chim. Ind., I-95125 Catania, Italy): Liquid crystalline properties of some benzylidene-aniline derivatives. *Thermochim. Acta* 43 (1981) 107
- GREER, A. L., HABBAL, F., SCOTT, J. F., TAKAHASHI, T. (Harvard Univ., Gordon McKay Lab., Div. Appl. Sci., Cambridge, Mass., 02138 USA): Specific heat anomalies and phase transitions in the solid electrolyte  $Ag_{26}I_{18}W_4O_{16}$ . *J. Chem. Phys.* 73 (1980) 5833
- GREGORA, I., VORLÍČEK, V. (Czechoslovak Acad. Sci., Inst. Phys., CS-18040 Prague, 8 Czechoslovakia): Investigation of phase transition in  $Hg_2Cl_2$  crystals. III. *Phys. Status Solidi A* 62 (1980) 129
- GRESSIER, J. C., LEVESQUE, G. (Univ. Maine, Fac. Sci., Phys. Chim. et Photochim. Organ Lab., F-72017 Le Mans, France): Polythioamides aliphatic. IV. Etude des propriétés thermiques en corrélation avec la structure du motif. *Eur. Polym. J.* 16 (1980) 1175
- GRIME, J. K., SEXTON, E. D. (Univ. Denver, Dept. Chem., Denver, Colo., 80208 USA): Fixed-time kinetic enthalpy: improved sensitivity for enthalpimetric enzyme activity determinations in homogeneous and heterogeneous systems. *Anal. Chim. Acta* 121 (1980) 125
- GRIMSHAW, J. M., MOORE, W. S. (Univ. Nottingham, Dept. Phys., Nottingham, NG7 2RD England): Thermally detected EPR of iron in soda-lime glass. *J. Phys. C* 13 (1980) 6399
- GRUNERT, D., HELLER, W. (Univ. Tübingen, Chirurg Klin., D-7400 Tübingen, 1 GFR): Behaviour of free fatty acids after burning in animal experiments. *Fette-Seifen-Anstrichm.* 82 (1980) 491

- GUPTA, A. R. (Bhabha Atom Res. Ctr., Div. Chem., Bombay, 400085 India): Thermal studies on the dehydration of polystyrene-divinylbenzene-type ion exchanges. *J. Chromatogr.* 205 (1981) 263
- GUPTA, R. M., BHARGAVA, H. N. (c/o H. N. Bhargava, Gorakhpur Univ., Dept. Chem., Gorakhpur, 273001 Uttar Pradesh, India): Thermal analysis of lanthanide polyphosphates. *Colloid Polym. Sci.* 258 (1980) 1226
- GUREVICH, L. E., KRYLOV, E. T. (A. F. Joffe Engn. Phys. Inst., Leningrad, USSR): Drag effect on thermoconductivity of uncompensated metals. *Fiz. Tverd. Tela* 23 (1981) 10 (in Russian)
- GURYEV, A. V., LEUSHIN, I. G., OKENKO, A. P., TEPLITSKIY, M. S.: Stress relaxation under superplasticity conditions during the thermal cycling. *Russ. Met. transl. Izv. Akad. Nauk SSSR Met.* (1979) 149
- GUYOT, A., BERT, M., BURILLE, P., LLAURO, M. F., MICHEL, A. (CNRS, Mat. Organ. Lab., BP 24, F 69390 Vernaison, France): Trial for correlation between structural defects and thermal stability in polyvinylchloride. *Pure Appl. Chem.* 53 (1981) 401
- HASSANI, M. O., GERMAIN, A., BRUNEL, D., COMMEYRAS, A. (c/o A. Germain, Univ. Montpellier, 2 Chim. Organ. Lab., F-34060 Montpellier, France): Thermal stability of perfluoroalkenesulfonic acids and their anhydrides. New and easy approach to  $R_FSO_2OR_F$  esters. *Tetrahedron Lett.* 22 (1981) 65
- HASELTON, H. T., NEWTON, R. C. (Univ. Chicago, Dept. Geophys. Sci., Chicago, Ill., 60637 USA): Thermodynamics of pyrope-grossular garnets and their stabilities at high temperatures and high pressures. *J. Geophys. Res.* 85 (1980) 6973
- HATTA, I., IKEDA, H. (Nagoya Univ., Dept. Appl. Phys., Nagoya, Aichi, 464 Japan): Critical amplitude of specific heat capacity in the antiferromagnets of  $K_2NiF_4$  family belonging to two-dimensional Ising universality class [48 (1980) 77]. *J. Phys. Soc. Jap.* 49 (1980) 2415
- HERRMANN, J., KLEINHANS, H. D., QUEDNAU, J., SCHNEIDER, G. M. (Ruhr Univ. Bochum, Inst. Phys. Chem., Dept. Chem., D-4630 Bochum, GFR): Phase behaviour of TBBA under high pressure by differential thermal analysis (DTA). *Mol. Cryst. Liquid Cryst.* 64 (1980) 109
- HEUMANN, K. G., KLÖPPEL, H. (Univ. Regensburg, Inst. Chem., D-8400 Regensburg, GFR): Calciumisotopenseparation und Bestimmung der Reaktionsenthalpie beim Isotopenaustausch an einem stark sauren Kationenaustauscher. *Z. Anorg. Allg. Chem.* 472 (1981) 83
- HEUVEL, H. M., HUISMAN, R. (AKZO Res. Labs., Dept. Fibre Res., Arnhe, Netherlands): Effects of winding speed, drawing and heating on the crystalline structure of nylon 6 yarns. *J. Appl. Polym. Sci.* 26 (1981) 713
- HOLMES, H. F., BAES, C. F., MESMER, R. E. (Oak Ridge Natl. Lab., Div. Chem., Oak Ridge, Tenn., 37830 USA): Isopestic studies of aqueous solutions at elevated temperatures. III.  $\{(1-y)NaCl + yCaCl_2\}$ . *J. Chem. Thermodyn.* 13 (1981) 101
- HOLMES, H. F., MESMER, R. E. (Oak Ridge Natl. Lab., Div. Chem., Oak Ridge, Tenn., 37830 USA): Isopestic studies of aqueous solutions at elevated temperatures. IV.  $NiCl_2$  and  $CoCl_2$ . *J. Chem. Thermodyn.* 13 (1981) 131
- HOLMES, J. L., FINGAS, M., LOSSING, F. P. (Univ. Massachusetts, Amherst, Mass., 01003 USA): Towards a general scheme for estimating the heats of formation of organic ions in the gas phase. I. Odd-electron cations. *Can. J. Chem.* 59 (1981) 80
- HOPFINGER, A. J., TAYLOR, P. I.: The international symposium on phase transitions in polymers. *Ferroelectrics* 30 (1980) 3
- HORDIJK, A. C., VERHOEFF, J., DE GROOT, J. J. (TNO, Prins Maurits Lab., NL-2280 AA Rijswijk, Netherlands): Thermal stability of tert-butyl peroxyipivalate. *Thermochim. Acta* 43 (1981) 75
- HOUSE, J. E., BLUMTHAL, T. G. (Illinois State Univ., Dept. Chem., Normal, Ill., 61761 USA): Thermal studies on oxalate complexes. III. Complexes of cobalt(III) and cobalt(II). *Thermochim. Acta* 43 (1981) 237
- HOUSE, J. E., JAGIELLA, J. A. (Illinois State Univ., Dept. Chem., Normal, Ill., 61761 USA): Studies on amine hydrothiocyanate. IV. Thermal decomposition studies using TG. *Thermochim. Acta* 43 (1981) 207

- HUDES, T., DOUGHERTY, R. C. (c/o R. C. Dougherty, Florida State Univ., Dept. Chem., Tallahassee, Fla., 32306 USA): Tris(dichloropropyl)phosphate, a mutagenic flame retardant: frequent occurrence in human seminal plasma. *Science* 211 (1981) 951
- HUDSON, R. L., WILLIAMS, F. (Eckerd Coll., Dept. Chem., St. Petersburg, Fla., 33733 USA): ESR study of dialkyl carbonate radical anions and their thermal and photochemical dissociation in the solid state. *J. Phys. Chem.* 85 (1981) 510
- HYLAND, G. J., STONEHAM, A. M. (Univ. Warwick, Dept. Phys., Coventry CU4 7AL, Warwickshire, England): Anharmonic specific heat of solid  $\text{UO}_2$ . *J. Nucl. Mater.* 96 (1981) 1
- INGLESE, A., CASTAGNOLO, M., DELL'ATTI, A., DE GIGLIO, A. (Univ. Bari, Ist. Chim. Fis., I-70124 Bari, Italy): Excess heat capacities and excess volumes of binary liquid mixtures of chloroform with cyclic ethers at 298.15 K. *Thermochim. Acta* 44 (1981) 77
- INGLESE, A., WILHELM, E., GROLIER, J. P., KEHIAIAN, H. V. (Univ. Bari, Ist. Chim. Fis., I-70124 Bari, Italy): Thermodynamics of binary mixtures containing cyclic ethers. 3. Excess enthalpies of oxolane, 1,3-dioxolane, oxane, and 1,3-dioxane + + benzene and + tetrachloromethane. *J. Chem. Thermodyn.* 13 (1981) 229
- IRVING, R. J., RIBEIRO DA SILVA, M.A. V. (c/o M. A. V. Ribeiro da Silva, Univ. Surrey, Dept. Home Econ., Guildford GU2 5XH, Surrey, England): Standard enthalpies of formation of bis(pentane-2,4 dionato)-copper(II) and tetrakis[bis(pentane-2,4-dionato)cobalt(II)] and an estimation of the metal-oxygen bond energies. *J. Chem. Soc. Dalton Trans.* (1981) 99
- ISHIGURO, S., OHTAKI, H. (c/o H. Ohtaki, Tokyo Inst. Technol., Dept. Electron Chem., Midori-ku, Yokohama, Kanagawa, 227 Japan): A thermodynamic study on hydrolytic reactions of lead(II) ions in an aqueous solution and dioxane-water mixtures. II. A calorimetric study. *Bull. Chem. Soc. Jap.* 54 (1981) 335
- IVÁN, B., KENNEDY, J. P., KELEN, T., TÜDŐS, F. (Hungarian Acad. Sci., Cent. Res. Inst. Chem., POB 17, H-1025 Budapest, Hungary): Cyclopentadienylation of PVC: characterization and thermal and thermo-oxidative degradation studies. *J. Polym. Sci. Polym. Chem. Ed.* 19 (1981) 9
- IVANOV, M. I., KARPOVA, T. F., DALAGO, N. Y. (All Union Inorgan. Mat. Res. Inst., Moscow, USSR): Enthalpy of formation of  $\text{Y Be}_{18}$ . *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 573
- IVLIEV, A. D., ZINOV'EV, V. E. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Measurement of the thermal diffusivity and the heat capacity by the method of temperature waves using laser radiation and a following amplitude-phase-receiver. *High Temp.* transl. *Teplofiz. Vysok. Temp.* 18 (1980) 422
- IWABUCHI, S. (Nagoya Univ., Fac. Sci., Dept. Phys., Nagoya, Aichi, 464 Japan): Phase transitions and dielectric constants in TTF-TCNQ. *J. Phys. Soc. Jap.* 49 (1980) 2208
- JANZ, G. J. (Rensselaer Polytech. Inst., Molten Salts Data Ctr., Cogswell Lab., Troy, N.Y., 12181 USA): Molten salts data as reference standards for density, surface tension, viscosity, and electrical conductance:  $\text{KNO}_3$  and  $\text{NaCl}$ . *J. Phys. Chem. Ref. Data* 9 (1981) 791
- JANZ, G. J., TOMKINS, R. P. T. (Rensselaer Polytech. Inst., Molten Salts Data Ctr., Cogswell Lab., Troy, N.Y., 12181 USA): Molten salts: volume 5, 1. Additional single and multi-component salt systems. Electrical conductance, density, viscosity, and surface tension date. *J. Phys. Chem. Ref. Data* 9 (1980) 831
- JAROMA-WELAND, G., KRAJEWSKI, T. (Adam Mickiewicz Univ., Inst. Phys., PL-60780 Poznań, Poland): Thermal conductivity of TGS crystals doped with  $\text{Fe}^{3+}$  ions. *Acta Phys. Pol. A* 58 (1980) 617
- JEWELL, N. E., NAWAR, W. W. (Vanbrode Milling Co., Clinton, Mass., 01510 USA): Thermal oxidation of phospholipids 1,2-dipalmitoyl-Sn-glycerol-3-phosphoethanolamine. *J. Amer. Oil Chem. Soc.* 57 (1980) 398
- JHA, K. M., JHA, S. P., JHA, S. N. (Bhagalpur Univ., Post Grad. Dept. Chem., Bhagalpur, 812007 India): Reduced form of equation for low temperature thermal

- conductivity of solids. *Indian J. Chem. A*, 19 (1980) 1054
- JOHANSON, W. R., MCCOLLUM, D. C. (Argonne Natl. Lab., Argonne, Ill., 60439 USA): Erratum: specific heats of EuTe and EuSe near their magnetic transitions [Phys. Rev. B, 22 (1980) 2435]. *Phys. Rev. B*, 23 (1981) 1489
- JOHNSON, G. K., CORDFUNKE, E. H. P. (Argonne Natl. Lab., Div. Chem. Engr., Argonne, Ill., 60439 USA): The enthalpies of formation of uranium mononitride and  $\alpha$ - and  $\beta$ -uranium sesquinitride by fluorine bomb calorimetry. *J. Chem. Thermodyn.* 13 (1981) 273
- KABESH, A. M., KHALIL, A. A. (Natl. Res. Ctr., Refractores and Bldg. Mat. Lab., Cairo, Egypt): The use of Wadi Gharandel clay deposits for the manufacture of various ceramic products. I. Assessment of the raw materials. *Thermochim. Acta* 43 (1981) 1
- KARAMPURWALA, A. M., PATEL, R. P., SHAH, J. R. (Sardar Patel Univ., Dept. Chem., Vallabh Vidyanagar, 388120 Gujarat, India): Spectral, thermal, and magnetic properties of chelate polymers. *J. Macromol. Sci. A* 15 (1981) 431
- KASPRZYCKA-GUTTMAN, T., IŻYCKA, K., CZELEJ, M. (Univ. Warsaw, Dept. Chem. Technol., PL-02093 Warszawa, Poland): Molar excess enthalpies and excess Gibbs energy in binary systems of pyridine base + iso-aliphatic alcohols. *Polish J. Chem.* 54 (1980) 1775
- KAWAZUMI, F., NISHIO, N., NOMURA, H., MIYAHARA, Y. (Nagoya Univ., Fac. Engr., Dept. Chem. Engr., Chikusa-ku, Nagoya, Aichi, 464 Japan): Heat-capacity measurements of aqueous solutions of mono-, di-, and tri-saccharides using an isoperibol twin calorimeter. *J. Chem. Thermodyn.* 13 (1981) 89
- KHODOS, M. Y., ZHURAVLEV, V. D., FOTIEV, A. A. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Chem., Sverdlovsk, USSR): Specific heat and entropy of orthovanadates of group II elements. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 482
- KHODOSOV, E. F., EREMINA, M. I., KOBZENKO, G. F., IVANCHENKO, V. G. (Acad. Sci. UkrSSR, Inst. Engrn. Phys., Donetsk, UkrSSR): Thermal kinetics of hydrogen separation from  $\text{LaNi}_5\text{-H}$  compounds; alloyed by Fe and Cr. *Zh. Fiz. Khim. SSSR* 54 (1980) 2812 (in Russian)
- KHUNE, G. D. (New Mexico Inst. Min. and Technol., Petr. Recovery Res. Ctr., Socorro, N. M., 87801 USA): The thermal and electrical behaviour of polyimide films. *J. Macromol. Sci. A* 15 (1981) 241
- KIBA, N., NISHIJIMA, M., FURUSAWA, M. (Yamanashi Univ., Fac. Engr., Dept. Chem., Kofu, Yamanashi, 400 Japan): Enthalpimetry with catalytic reactions. 1. Determination of sulphide solution by the iodine-azide reaction. *Talanta* 27 (1980) 1090
- KIBA, N., SUTO, T., FURUSAWA, M. (Yamanashi Univ., Fac. Engr., Dept. Chem., Kofu, Yamanashi, 400 Japan): Enthalpimetry with catalytic reactions. 2. Determination of thioureas by the iodine-azide reaction after thin-layer chromatographic separation. *Talanta* 28 (1981) 115
- KIM, K. Y., JOHNSON, C. E. (Honeywell Inc., Ctr. Technol., 10701 Lyndale Ave. S., Bloomington, Minn., 55420 USA): Thermochemistry of rare-earth trifluorides. II. Estimation of standard enthalpies of formation. *J. Chem. Thermodyn.* 13 (1981) 13
- KIRÁLY, R., TÓTH, I., BRÜCHER, E. (Lajos Kossuth Univ., Dept. Inorgan. and Analyt. Chem., H-4010 Debrecen, Hungary): Aminopolycarboxylates of rare earths. VI. Determination of stability constants and formation enthalpies of rare earth(III)-ethylenediamine tetraacetate-fluoride mixed ligand complexes. *J. Inorg. Nucl. Chem.* 43 (1981) 345
- KISHORE, K., MOHANDAS, K. (Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., High Energy Solids Lab., Bangalore, 560012 India): A simple and inexpensive technique to study the flammability of polymers. *Colloid Polym. Sci.* 258 (1980) 1377
- KLEINSCHMIDT, P. D., LAU, K. H., HILDENBRAND, D. L. (Sri Int., Menlo Pk., Calif., 94025 USA): Thermochemistry of the gaseous fluorides of samarium, europium, and thulium. *J. Chem. Phys.* 74 (1981) 653
- KNOP, O., OXTON, I. A., WESTERHAUS, W. J., FALK, M. (Dalhousie Univ., Dept. Chem., Halifax, NS, B3H 4J3 Canada): Infrared

- spectra of the ammonium ion in crystals.
10. Low-temperature transitions in the Perovskites  $\text{NH}_4\text{MF}_3$ (M=Mn, Co, Zn). *J. Chem. Soc. Faraday Trans. II*, 77 (1981) 309
- KOHÚTOVÁ, M., DOBROVODSKÝ, J., ZIKMUND, M. (Slovak Acad. Sci., Inst. Inorgan. Chem., CS-80934 Bratislava, Czechoslovakia): Synthesis and thermogravimetric investigation of mixed ligand chlorotitanium(III) complexes containing tetrahydrofuran and acetonitrile. *Chem. Zvesti* 34 (1980) 740
- KOLESOV, V. P., KOSARUKINA, E. A., ZHOGIN, D. Y., POLOZNIKOVA, M. E., PENTIN, Y. A. (M. V. Lomonosov State Univ., Dept. Chem., Moscow, 117234 USSR): Heat capacities, phase transitions, and thermodynamic functions of 1,1,2,2-tetrafluoro-1,2,2-trichloroethane. *J. Chem. Thermodyn.* 13 (1981) 115
- KOLOTYRKIN, V. I., KESSLER, J. A., SHCHELKOTUNOV, V. A., GORDEYEV, I. V., METLIN, Y. G., TRETYAKOV, Y. D. (M. V. Lomonosov State Univ., Dept. Chem., Moscow, 117234 USSR): Heat capacity and thermodynamic properties of ramsdellite,  $\text{Li}_2\text{Ti}_3\text{O}_7$ , and spinel,  $\text{Li}_{4/3}\text{Ti}_{5/3}\text{O}_4$ . *Thermochim. Acta* 43 (1981) 27
- KONDRASHENKOV, A. A., BOBKOV, E. A., IGNAT'eva, N. N. (Ural Struct. Mat. Res. and Design Inst., Sverdlovsk, USSR): Dehydration kinetics of gypsum in water vapor at 120–200 °C. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 491
- KONDRASHENKOV, A. A., BOBKOV, E. A., IGNAT'eva, N. N. (Ural Struct. Mat. Res. and Design Inst., Sverdlovsk, USSR): Phase transitions during dehydration of gypsum under hydrothermal conditions. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 494
- KONDRATENKO, P. A., KHUTORNAYA, L. A., SHPAK, M. T. (Acad. Sci. UkrSSR, Inst. Phys., Kiev, UkrSSR): On phase transitions in anthracene crystals. *Kristallografiya* 25 (1980) 1216 (in Russian)
- KORMACHEV, V. V., MTRASOV, Y. N., KUKHTIN, V. A. (I. N. Ulyanov State Univ., Cheboksary, USSR): Thermal conversion of phosphorus pentachloride adducts with alkyl-methallyl ethers. *Zh. Obshch. Khim.* 51 (1981) 248 (in Russian)
- KORSHAK, V. V., GRIBOVA, I. A., PAVLOVA, S. S. A., ZHURALEVA, I. V., VINOGRADOV, A. V., MAMATSASHVILI, G. V., KOMAROVA, L. I., ZYUZINA, G. F. (Acad. Sci. USSR, Inst. Organoelement Compds., Moscow, V-71 USSR): Study of the thermooxidative degradation of filled systems on the basis of polyarylate F-2. *Vysokomol. Soedin. B*, 23 (1981) 26 (in Russian)
- KOZHINA, I. I., RODIONOVA, L. P., TOLMACHEV, Y. M.: Study of the thermal decomposition of ammonium uranates. *Sov. Radiochem. transl. Radiokhim.* 22 (1980) 206
- KOZŁOWSKI, M., LASKAWSKI, W. (Polytech. Inst. Wrocław, Inst. Organ. and Phys. Chem., PL-50370 Wrocław, Poland): 2-Component blends of poly(vinylchloride) with some vinyl chloride copolymers. II. Physicochemical, mechanical and thermal properties of the blends. *Angew. Macromol. Chem.* 91 (1980) 17
- KRAJEWSKA, A., WASILEWSKA, K. (Polytech. Inst. Wrocław, Inst. Organ. and Phys. Chem., PL-50370 Wrocław, Poland): A re-examination of the phase diagram of the binary system pyrene-picryl chloride. *Thermochim. Acta* 44 (1981) 117
- KUBASCHEWSKI, O. (TH Aachen, Lehrstuhl Theoret. Hüttenkunde, D-5100 Aachen, GFR): Experimental thermochemistry of alloys. *Physica B* 103 (1981) 101
- KULIK, T., MATYJA, H. (Warsaw Tech. Univ., Inst. Mat. Sci. and Engn., PL-02524 Warszawa, Poland): The effect of plastic deformation of amorphous Pd-Si alloys on their thermal properties. *J. Mater. Sci.* 15 (1980) 3169
- KUMAR, V., CHAUDHARY, D. R. (Univ. Rajasthan, Dept. Phys., Jaipur, 4 India): Prediction of effective thermal conductivity of 2-phase porous materials using resistor model. *Indian J. Pure Appl. Phys.* 18 (1980) 984
- KUNDU, P. C., ROY, P. S. (Univ. Coll. Sci. Calcutta, Dept. Pure Chem., Inorgan. Chem. Lab., Calcutta, 700009 India): Kinetic parameters from derivatograms on ligand dissociation reaction of mixed chelate complexes of dioxouranium(VI) with cupferron. *J. Inorg. Nucl. Chem.* 43 (1981) 186.
- KURIBAYASHI, K., YOSHIMURA, M., OHTA, T. (McMaster Univ., Dept. Met. and Mat.

- Sci., Hamilton, Ontario, L8S 4L8 Canada): High-temperature phase relations in the system  $\text{Y}_2\text{O}_3 \cdot \text{Y}_2\text{O}_3 \cdot \text{WO}_3$ . *J. Amer. Ceram. Soc.* 63 (1980) 644
- KURUSU, Y. (Sophia Univ., Fac. Sci. and Technol., Dept. Chem., Chiyoda-ku, Tokyo, 102 Japan): Thermal behavior of a new type molybdenum oxide obtained by oxidation of molybdenum powder or molybdenum trioxide with hydrogen peroxide. *Bull. Chem. Soc. Jap.* 54 (1981) 293
- LACABANNE, C., CHATAIN, D., EL SAYED, T., BROUSSOUX, D., MICHERON, F. (Paul Sabatier Univ., Solid State Phys. Lab., F-31062 Toulouse, France): Transitions in poly(vinylidene fluoride) by thermally stimulated techniques. *Ferroelectrics* 30 (1980) 307
- LAGRANGE, P., EL MAKRINI, M., GUÉRARD, D., HÉROLD, A. (Chim. Minerale Appl. Lab., F-54037 Nancy, France): Intercalation of the amalgams  $\text{KH}_g$  and  $\text{RbH}_g$  into graphite: reaction mechanisms and thermal stability. *Synthet. Metal.* 2 (1980) 191
- LAWLESS, W. N. (Lake Shore Cyotron Inc., Westerville, Ohio, 43081 USA): Thermal properties of small Pb spheres at low temperatures. *J. Low Temp. Phys.* 41 (1980) 339
- LAZAREV, E. M., EKLUND, G. S.: High-temperature oxidation of Nb-V alloys. *Russ. Met. transl. Izv. Akad. Nauk SSSR Met.* (1979) 205
- LEBEDEVA, N. O., DOBYCHIN, S. L., STEPANOV, V. B., KATIN, Y. A., KOZLOVA, N. M.: Heat capacity, thermodynamic functions, and vapor pressure of bis(tetrafluoropropyl)-carbonate. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 53 (1980) 619
- LEE, R. F. (Univ. Western Australia, Dept. Geol., Nedlands, Wa., 6009 Australia): Simultaneous determination of carbon and sulphur in geological material, using inductive combustion. *Chem. Geol.* 31 (1980) 145
- LE MOIGNE, J., POUYET, G., FRANCOIS, J. (Ctr. Rech. Macromoléc., 6 Rue Boussingault, F-67083 Strasbourg, France): Study by differential scanning calorimetry of the structure of aliphatic chains and water in  $\text{Cs}$  soaps-water systems. *Colloid Polym. Sci.* 258 (1980) 1383
- LESKELÄ, M., STUBB, H. (Helsinki Univ. Technol., Dept. Chem., SF-02150 Espoo, 15 Finland): Thermal stability and infrared absorption spectrum of  $\text{Eu}_2\text{O}_2\text{Se}$ . *Finn. Chem. Lett.* (1980) 173
- LEVIN, E. S., ESIN, Y. O., ZAVYALOV, V. K. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Estimation of physical properties of binary melts according to experimental data on enthalpies of their formation. *Zh. Fiz. Khim.* 55 (1981) 224 (in Russian)
- LEWIS, D. (USN, Res. Lab., Washington, D.C., 20375 USA): Comparison of critical  $\Delta T_c$  values in thermal shock with the R parameter. *J. Amer. Ceram. Soc.* 63 (1980) 713
- LIELMEZS, J., ALEMAN, H., BANDENIEKS, A. (Univ. British Columbia, Dept. Chem. Engn., Vancouver, BC, V6T 1W5 Canada): External magnetic field effect on viscometer efflux times of calf thymus DNA in 0.0172M KCl solution during the thermal denaturation process. *Thermochim. Acta* 43 (1981) 9
- LIESEGANG, G. W. (NHLBI, Tech. Dev. Lab., Bethesda, Md., 20205 USA): Kinetics of lithium(+) and calcium(2+) complexation by 211 cryptand using a stopped-flow calorimeter. *J. Amer. Chem. Soc.* 103 (1981) 953
- LOIACONO, G. M., KOSTECKY, G. (Philips Labs., Briarcliff Manor, N.Y., 10510 USA): Thermal properties of pure and doped TGS, DTGS, TGFB and DTGFB single crystals. *Mater. Res. Bull.* 16 (1981) 53
- LOMOVSKY, O. I., MIKHAILOV, Y. I., BOLDYREV, V. V., MASTIKHIN, V. M. (Acad. Sci. USSR, Inst. Physicochem. Principles Mineral Proc., Novosibirsk, 630090 USSR): Kinetics and mechanism of thermal decomposition of copper hypophosphate. *Thermochim. Acta* 43 (1981) 135
- LÓPEZ-ECHARRI, A., TELLO, M. J. (Univ. País Vasco, Fac. Ciencias, Dept. Fis., E-644 Bilbao, Spain): Calorimetric study of the ferroelectric trissarcosine calcium chloride in the range 50–330 K. *J. Phys. D*, 14 (1981) 71
- LOPP, A. K., GUBERGRITS, M. V. (Acad. Sci. EsSSR, Inst. Chem., Tallin, 200103 EsSSR): Photochemical and thermal decomposition of 7,12-epidihydroxy-7,12 di-

- methylbenzo [A] anthracene. *Zh. Obshch. Khim.* 51 (1981) 225 (in Russian)
- LUFF, B. B. (Tennessee Valley Author., Natl. Fertilizer Dev. Ctr., Div. Chem. Dev., Muscle Shoals, Al., 35660 USA): Heat capacity and enthalpy of phosphoric acid. *J. Chem. Eng. Data* 26 (1981) 70
- MADORSKAYA, L. Y., LOGINOV, N. N., SHADRINA, N. Y., KLESHCHEVA, M. S., PASHIN, Y. A. (Plastpolimer Sci. Ind. Assoc., Leningrad, USSR): Influence of the nature of the end groups of polyvinylidene fluoride on its thermal degradation. *Vysokomol. Soedin. B* 22 (1980) 904 (in Russian)
- MAJER, V., SVOBODA, V., POŠTA, A., PICK, J. (Prague Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague 6, Czechoslovakia): Determination of heats of vaporization and some other thermodynamic quantities for several fluorinated halogen derivatives of ethane and propane. *Collection* 45 (1980) 3063
- MALHOTRA, S. L., LESSARD, P., BLANCHARD, L. P. (Xerox Res. Ctr. Canada Ltd., Mississauga, Ontario, L5L 1J9 Canada): The thermal decomposition and glass transition temperature of poly(p-tert-butylstyrene). *J. Macromol. Sci. A* 15 (1981) 121
- MALHOTRA, S. L., LESSARD, P., BLANCHARD, L. P. (Xerox Res. Ctr. Canada Ltd., Mississauga, Ontario, L5L 1J9 Canada): A thermal decomposition and glass transition temperature study of poly(p-chlorostyrene). *J. Macromol. Sci. A* 15 (1981) 279
- MALHOTRA, S. L., LESSARD, P., BLANCHARD, L. P. (Xerox Res. Ctr., Canada Ltd., Mississauga, Ontario, L5L 1J9 Canada): The thermal decomposition and glass transition temperature of polyp-methoxystyrene. *J. Macromol. Sci. A* 15 (1981) 301
- MALHOTRA, V. M., BUCKMASTER, H. A., BIST, H. D. (Univ. Calgary, Dept. Phys., Calgary, Alberta, T2N 1N4 Canada): The use of the electron paramagnetic resonance of  $Gd^{3+}$  impurity ions and infrared spectra to study the phase transitions in  $NH_4Ce(SO_4)_2 \cdot 4H_2O$  single crystals. *Can. J. Phys.* 58 (1980) 1667
- MALKEROVA, I. P., ALIKHANYAN, A. S., GORGORAKI, V. I. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Heat of formation of molybdenum thiofluorides  $MoSF_3$ ,  $MoSF_4$ . *Zh. Neorg. Khim.* 25 (1980) 3181 (in Russian)
- MAMEDOV, K. K., VELIEV, R. K., ALDZHANOV, M. A., MEKHTIEV, M. I. (Acad. Sci. AzSSR, Inst. Phys., Baku, AzSSR): Specific heat of  $CdCaInS_4$  layered crystal. *Fiz. Tverd. Tela* 22 (1980) 3723 (in Russian)
- MARTON, A., INCZÉDY, J., ABRAHAM, M. H., IRVING, R. J., SALMON, J. E. (Veszprém Univ. Chem. Engr., Dept. Anal. Chem., H-8201 Veszprém, Hungary): Thermochemical aspects of anion exchange reactions. II. Exchange reactions involving polyvalent orthophosphates. *Acta Chim. Acad. Sci. Hung.* 106 (1981) 43
- MATSUI, K., ADACHI, K., CHIKAZUMI, S. (Gen. Atom Co., San Diego, Calif., 92138 USA): Magnetic and thermal anomalies of invar alloys. *J. Appl. Phys.* 51 (1980) 6319
- MCCARTHY, C. M., TOMPSON, C. W., GRAVES, R. J., WHITE, H. W., FISK, Z., OTT, H. R. (Flinders Univ. S. Australia, Inst. Atom Studies, Bedford Pk., SA 5042 Australia): Low temperature phase transitions and magnetic structure of  $PrB_6$ . *Solid State Commun.* 36 (1980) 861
- MCCARTHY, D. J. (CSIRO, Div. Mineral Engr., POB 312, Clayton, Vic., 3168 Australia): Flash pyrolysis of Australian coals: effects of pre-oxidation and of oxygen in the inlet gases on formation of agglomerated material. *Fuel* 60 (1981) 205
- MCFALL, T. A., POST, M. E., COLLINS, S. G., CHRISTENSEN, J. J., IZATT, R. M. (Brigham Young Univ., Inst. Thermochem., Dept. Chem. Engr., Provo, Utah, 84602 USA): The excess enthalpies of 10 (n-butane + alcohol) mixtures at 298.15 K. *J. Chem. Thermodyn.* 13 (1981) 41
- MEISSNER, M., SPITZMANN, K. (Tech. Univ. Berlin, Inst. Festkörperphys., D-1000 Berlin 12): Experimental evidence on time-dependent specific heat in vitreous silica. *Phys. Rev. Lett.* 46 (1981) 265
- MIEDEMA, A. R., DE BOER, F. R., BOOM, R. (Philips Res. Labs., NL-5600 MD Eindhoven, Netherlands): Predicting heat effects in alloys. *Physica B* 103 (1981) 67
- MIKHAILOV, Y. I., LOMOVSKY, O. I., LUSHNIKOV, A. Y., BOLDYREV, V. V.

- (Acad. Sci. USSR, Inst. Physicochem. Principles Mineral Proc., Novosibirsk, 630090 USSR): Influence of preliminary UV irradiation on the thermal decomposition of copper hypophosphite. *Thermochim. Acta* 43 (1981) 143
- MIRBACH, M. F., SAUS, A., KRINGS, A. M., MIRBACH, M. J. (Univ. Duisburg Gesamthsch., Fachbereich Angew. Chem. 6, D-4100 Duisburg, GFR): Thermal, photochemical and alcohol catalyzed formation of  $\text{Co}_4(\text{CO})_{12}$  from  $\text{Co}_2(\text{CO})_8$ . Kinetics and mechanism. *J. Organometal. Chem.* 205 (1981) 229
- MISHUSTIN, A. I. (Moscow Chem. Machinery Inst., Moscow, USSR): Determination of free enthalpies of cation migration between solvents, using the method of quadrupole relaxation of their nuclei. 2. Lithium cations in dipolar aprotic solvents. *Zh. Fiz. Khim.* 55 (1981) 61 (in Russian)
- MISHUSTIN, A. I., PODKOVYRIN, A. I., KESSLER, Y. M. (Moscow Chem. Machinery Inst., Moscow, USSR): Determination of free enthalpies of cation migration between solvents, using the method of quadrupole relaxation of their nuclei. 1. The theory of new method. *Zh. Fiz. Khim.* 55 (1981) 56 (in Russian)
- MISRA, P. P., DAS, N. C., DAS, P. B. (c/o P. B. Das, Ravenshaw Coll., Dept. Chem., Cuttack, 753003 Orissa, India): Thermodynamics of salts in dioxane-water mixtures from viscosity measurements. *Thermochim. Acta* 44 (1981) 113
- MIZUNO, H., MATSUDA, M., JINO, M. (c/o M. Jino, Tohoku Univ., Chem. Res. Inst. Nonaqueous Solut., Sendai, Miyagi, 980 Japan): Studies of sulfinyl radicals. 1. Thermal decomposition p-tolyl sulfoxide and benzhydryl methyl sulfoxide. *J. Org. Chem.* 46 (1981) 520
- MOSEEV, G. K., VATOLIN, N. A. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Met., Sverdlovsk, USSR): Thermodynamic analysis of thermal dissociation of a mixture of  $\text{Ca}_3\text{P}_2\text{O}_8 + \text{Ca}_2\text{Nb}_2\text{O}_7 + \text{Fe}_2\text{SiO}_4$ . *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 473
- MOON, K. A., KANT, A., CROFT, W. J. (USA, Mat. and Mech. Res. Ctr., Watertown, Mass., 02172 USA): Heats and free energies of formation of two sialons by mass spectrometry. *J. Amer. Ceram. Soc.* 63 (1980) 698
- MORTON, N., JAMES, B. W., WOSTENHOLM, G. H., JONES, S. (Univ. Salford, Dept. Pure and Appl. Phys., Salford, M5 4WT Lancashire, England): The anomalous low temperature lattice thermal conductivity of  $\text{V}_3\text{Sn}$  and related compounds. *Cryogenics* 21 (1981) 81
- MOTAKABBIR, K. A., GRIMVALL, G. (Atom Energy Ctr., Div. Theoret. Phys., Box 164, Dacca, Bangladesh): Thermal conductivity minimum of metals. *Phys. Rev. B* 23 (1981) 523
- MOUSSET, C., DESOYER, J. C. (CNRS, Met. Phys. Lab., 13140 Ave. Recteur Pineau, F-86022 Poitiers, France): Déformation à haute température du silicium monocristallin. Etude des premiers stades. *Phys. Status Solidi A* 62 (1980) K63
- MRAW, S. X., O'ROURKE, D. F. (Exxon Res. and Engn. Co., Corp. Res. Labs., POB 45 Linden, N.J., 07036 USA): Accuracy of differential scanning calorimetry for heat capacities of organic compounds at high temperatures. New method for enthalpy of fusion by d.s.c. *J. Chem. Thermodyn.* 13 (1981) 199
- MULLA, M. R., PAWAR, S. H. (Shivaji Univ., Dept. Phys. Mat. Res. Lab., Kolhapur, 416004 Maharashtra, India): Temperature dependence of magnetic susceptibility of  $\text{CaSO}_4$  dy phosphors. *Indian J. Pure App. Phys.* 18 (1980) 936
- MUNN, R. W., LUTY, T. (Univ. Manchester, Inst. Sci. and Technol., Dept. Chem., Manchester, M60 1QD Lancashire, England): Theoretical studies of phase transitions in tetracyanoethylene. *Faraday Discuss. Roy. Soc. Chem.* (1980) 107
- MURTY, S. R., RAO, T. S. (Osmania Univ., Coll. Sci., Dept. Phys., Hyderabad, 500007 Andhra Pradesh, India): Temperature dependence of internal friction in polycrystalline ferrites. *Indian J. Pure Appl. Phys.* 18 (1980) 933
- NAITO, T., MIYATA, O., NINOMIYA, I. (Kobe Womens Coll. Pharm., Kobe 658, Japan): Extension of the thermal and photochemical reactions of enamides. *Heterocycles* 16 (1981) 176
- NAKANISHI, M., FUJIEDA, S. (Ochanomizu Univ., Dept. Chem., Bunkyo-ku, Tokyo,

- 112 Japan): Heat exchange type of titration calorimetry with on-line analogue compensation for the effect of titrant addition. *Termochim. Acta* 43 (1981) 189
- NAPPI, B. M., GINGERICH, K. A. (c/o K. A. Gingerich, Texas A and M Univ., Dept. Chem., College Stn., Tex., 77843 USA): Dissociation energy and standard heat of formation of gaseous LaPt. *Inorg. Chem.* 20 (1981) 522
- NASYBULLIN, R. A., KALIMULLIN, R. K., SHAPKIN, V. V., KHARIONOVSKII, Y. S., DZHUMIGO, A. M., BURSIAN, E. V. (A. I. Gersten State Teachers Inst., Leningrad, USSR): High-temperature phase transition in  $Pb_{1-x}SnTe$  solid solutions. *Fiz. Tverd. Tela* 23 (1981) 300 (in Russian)
- NEKHENDZI, E. Y., ADAKHOVSKIY, A. P., TITOVA, T. N., AGUSHEVICH, N. S.: Influence of the atmosphere during heat treatment and melting on the electrical properties of palladium-silver alloy micro-wires. *Russ. Met. transl. Izv. Akad. Nauk SSSR Met.* (1979) 200
- NELSON, L. S. (Sandia Natl. Labs., Albuquerque, N. M., 87185 USA): Unusually high (oxidizer/Pu) ratios in the macro-residues from plutonium droplet combustion. *High Temp. Sci.* 12 (1980) 297
- NESTEROVA, R. G., ADAMOV, A. A., FREIDLIN, G. N. (All Union Monomer Res. Inst., Tula, USSR): Thermal dehydration of succinic and glutaric acids. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 53 (1980) 491
- NIHIRA, T., IWATA, T. (Ibaraki Univ., Fac. Engn., Hitachi, 316 Japan): Thermal conductivity of electron-irradiated pyrolytic graphite. *J. Phys. Soc. Jap.* 49 (1980) 1916
- NIKOLAENKO, I. V. (T. G. Shevchenko State Univ., Kiev, UkrSSR): A calorimetric study in enthalpies of formation for liquid germanium alloys with rare earths. *Dopov. Acad. Nauk Ukr. SSR B* (1980) 50 (in Ukrainian)
- NIKOLAENKO, I. V., BELOBORODOVA, E. A., BATALIN, G. I. (T. G. Shevchenko State Univ., Kiev, UkrSSR): Enthalpy of mixing liquid germanium and neodymium alloys. *Ukr. Khim. Zh.* 46 (1980) 868 (in Russian)
- NIKULICHEV, Y. G., NIKITINA, N. S., MYSAK, A. E., TARASEVICH, Y. I., PRIMAK, R. G. (All Union Petr. Refining and Petrochem. Ind. Res. Inst., Kiev, UkrSSR): Determination heats of hydrocarbon adsorption from solutions on organophilic montmorillonite by the flowing microcalorimetric method. *Ukr. Khim. Zh.* 46 (1980) 1062 (in Russian)
- NILSSON, L., THOMAS, J. O., TOFIELD, B. C. (Chalmers Univ. Technol., Dept. Phys., S-41296 Goteborg, Sweden): The structure of the high-temperature solid electrolyte lithium sulphate at 908 K. *J. Phys. C* 13 (1980) 6441
- NWANKWO, S. I. (Univ. Benin, Dept. Chem., Benin City, Nigeria): The standard enthalpies of hydrolysis and formation of tetraethylammonium tetrabromophosphite. *J. Chem. Thermodyn.* 13 (1981) 301
- NWANKWO, S. I., WADSÖ, I. (Univ. Benin, Dept. Chem., Benin City, Nigeria): Enthalpies and heat capacities of solution of 1-butanol in (water + 1,2-ethanediol). *J. Chem. Thermodyn.* 12 (1980) 1167
- NÝVLT, J., PEKÁREK, V. (Czechoslovak Acad. Sci., Inst. Inorgan. Chem., CS-16000 Prague, 6 Czechoslovakia): Crystallization studies by thermometric methods. 3. The effect of thermal history of solutions on nucleation. *Z. Phys. Chem.* J22 (1980) 199
- OELHAFEN, P. (Univ. Basel, Inst. Phys., CH-4056 Basel, Switzerland): Transition alloy heats of formation from photoemission data. *J. Phys. F* 11 (1981) L41
- OHSAWA, A., WADA, I., IGETA, H. (c/o H. Igeta, Showa Univ., Sch. Pharmaceut. Sci., Shinagawa-ku, Tokyo, 142 Japan): Thermal decomposition of 1,3-dipolar cycloadducts of pyridazine N-acetylimes and tetrachlorocyclopropene. *Heterocycles* 15 (1981) 753
- OSBORNE, C. G., MORCOM, K. W. (Univ. Leicester, Dept. Chem., Leicester, LE1 7RH England): Thermodynamic behaviour of (hexafluorobenzene + a cyclic ether). I. Excess Gibbs functions. *J. Chem. Thermodyn.* 13 (1981) 235
- OTT, H. R., ANDRES, K., SCHMIDT, P. H. (ETH Hönggerberg, Festkörperphys. Lab., CH-8093 Zürich, Switzerland): The low temperature phase transitions of  $UPd_3$ . *Physica B* 102 (1980) 148
- OTT, J. B., MARSH, K. N., STOKES, R. H. (Brigham Young Univ., Dept. Chem., Provo, Utah, 84602 USA): Excess enthal-

- pies, excess Gibbs free energies, and excess volumes for (cyclohexane + n-hexane), and excess Gibbs free energies and excess volumes for (cyclohexane + methylcyclohexane) at 298.15 and 308.15 K. *J. Chem. Thermodyn.* 12 (1980) 1139
- PAETZOLD, P., BENNIGSEN-MACKIEWICZ, T. (Tech. Hsch. Aachen, Inst. Anorgan. Chem., Templergraben 55, D-5100 Aachen, GFR): Borimide beim thermischen Zerfall der Dialkyl[silyl(silyloxy)amino]-boranes. *Chem. Ber.* 114 (1981) 298
- PAN, P. H., SHANKS, H. R., BEVOLO, A. J., DANIELSON, G. C. (US Doe, Ames Lab., Ames, Ia, 50011 USA): Low-temperature heat capacity of some alkali metal tungstates. *J. Solid State Chem.* 35 (1980) 176
- PAPANICOLAOU, G. C., MARCHESE, A., THEOCARIS, P. S. (Natl. Tech. Univ., Dept. Theoret. and Appl. Mech., Athens, 625 Greece): Thermal and dynamic behavior of the necked region in polycarbonate. *J. Rheol.* 24 (1980) 815
- PAPAZIAN, J. M. (Grumman Aerosp. Corp., Dept. Res., Bethpage, N.Y., 11714 USA): A calorimetric study of precipitation in aluminium alloy 2219. *Met. Trans. A* 12 (1981) 269
- PATEL, R., PATEL, K. C., MANKAD, B. N., PATEL, R. D. (Sardar Patel Univ., Dept. Chem., Vallabh Vidyanagar, 388120 Gujarat, India): Thermal stability of p-xylene-formaldehyde resin and its derivatives. *Proc. Indian Acad. Sci. Chem. Sci.* 89 (1980) 561
- PATHAK, P. D., DESAI, R. J. (Gujarat Univ., Sch. Sci., Dept. Phys., Ahmedabad, 380009 Gujarat, India): Thermal properties of some H.C.P. metals (I). *Phys. Status Solidi A* 62 (1980) 625
- PATIL, K. C., VITTAL, J. P., PATEL, C. C. (Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., Bangalore, 560012 India): Pyrolysis and combustion of  $\alpha$ -cellulose: effect of dihydrazinium phosphate  $(\text{N}_2\text{H}_5)_2\text{HPO}_4$ . *Thermochim. Acta* 43 (1981) 213
- PEIRO, J. M., GRACIA, M., GUTIERREZ LOSA, C. (Univ. Zaragoza, Fac. Ciencias, Dept. Quim. Fis., Zaragoza, Spain): Excess enthalpies and excess volumes of some (benzene + bromoalkane) mixtures. *J. Chem. Thermodyn.* 13 (1981) 165
- PELINO, M., TOMASETTI, M., PIACENTE, V., D'ASCENZO, G. (c/o V. Piacente, Univ. Rome, Ist. Chim. Fis., I-00185 Rome, Italy): Vapor pressure measurements of ferrocene, mono and 1,1'-diacetyl ferrocene. *Thermochim. Acta* 44 (1981) 89
- PERKAMPUS, H. H., SONDERN, CHR. (Univ. Düsseldorf, Inst. Phys. Chem., D-4000 Düsseldorf, 1 GFR): Thermodynamic investigations of Menshutkin complexes. 1. Enthalpie and entropie of formation of the complex  $2\text{SbCl}_3 \cdot \text{C}_6\text{H}_6$ . *Ber. Bunsen Ges. Phys. Chem.* 84 (1980) 1231
- PERRON, G., DE LISI, R., DAVIDSON, I., GENEREUX, S., DESNOYERS, J. E. (c/o J. E. Desnoyers, Univ. Sherbrooke, Dept. Chem., Sherbrooke, Quebec, J1K 2R1 Canada): On the use of thermodynamic transfer functions for the study of the effect of additives on micellization: volumes and heat capacities of sodium octanoate systems. *J. Colloid Interface Sci.* 79 (1981) 432
- PETRUJ, J., SLAMA, Z. (c/o Z. Slama, Inst. Macromolec. Chem., CS-65649 Brno, Czechoslovakia): Kinetics of thermooxidation and photooxidation of poly(oxy-2,6-dimethyl-1,4-phenylene),2.1. A suggestion of the reaction mechanism. *Makromol. Chem.* 181 (1980) 2461
- PHADNIS, A. B., DESHPANDE, V. V. (Bhabha Atom Res. Ctr., Div. Chem., Bombay, 400085 India): On the dehydration of  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ . *Thermochim. Acta* 43 (1981) 249
- PHILIPP, A., HALBRITTER, J. (Kernforschungszentrum Karlsruhe, D-7500 Karlsruhe, 1 GFR): On the temperature and frequency dependence of the surface resistance of superconducting Nb. *IEEE Trans. Magn.* 17 (1981) 951
- PHILIPP, B. (Acad. Sci. GDR, Inst. Polymer Chem., DDR-108 Berlin): Thermal, acid-hydrolytic and enzymatic degradation of cellulose. (Review). *Vysokomol. Soedin. A* 23 (1981) 3 (in Russian)
- PIETRALLA, M. (Univ. Ulm, Exptl. Phys. Abt., D-7900 Ulm, GFR): Anisotrope Wärmeleitfähigkeit in Polymeren. *Colloid Polym. Sci.* 259 (1981) 111
- PLATÉ, N. A., SHIBEAV, V. P. (M. V. Lomonosov State Univ., Dept. Chem., Moscow, 117234 USSR): Thermotropic liquid-crystalline polymers: a new type of meso-

- morphic macromolecular system. *J. Polym. Sci. C* (1980) 1
- PODGURSKI, H. H., DAVIS, F. N. (United Steel Corp., Res. Lab., 125 Jamison Lane, Monroeville, Pa., 15146 USA): Thermochemistry and nature of nitrogen absorption in nitrogenated Fe-Ti alloys. *Acta Met.* 29 (1981) 1
- POST, M. E., MCFALL, T. A., CHRISTENSEN, J. J., IZATT, R. M. (Brigham Young Univ., Inst. Thermochem., Dept. Chem. Engrn., Provo, Utah, 84602 USA): The excess enthalpies of seven (propane + alcohol) mixtures at 298.15 K. *J. Chem. Thermodyn.* 13 (1981) 77
- PRINSLOO, J. J., GRAVELLE, P. C. (c/o P. C. Gravelle, CNRS, Inst. Rech. Catalyse, F-69626 Villeurbanne, France): Volumetric and calorimetric study of the adsorption of hydrogen, at 296 K, on silica-supported nickel and nickel-copper catalysts. *J. Chem. Soc. Faraday Trans. I*, 76 (1980) 2221
- PRIVALKO, V. P., BESKLUBENKO, Y. D., DEMCHENKO, S. S., TITOV, G. V. (Acad. Sci. UkrSSR, Inst. Chem. Macromolec. Cpdns., Kiev, UkrSSR): Glass transition in filled polystyrene and elevated pressures. *Vysokomol. Soedin. A* 23 (1981) 116 (in Russian)
- PROKUDIN, V. G., NAZIN, G. M., MANELIS, G. B. (Acad. Sci. USSR, Inst. Chem. Phys., Chernogolovka, USSR): On the mechanism of thermal decomposition of furazanes and furoxanes. *Dokl. Akad. Nauk SSSR* 255 (1980) 917 (in Russian)
- PTASZYŃSKI, B. (Tech. Univ. Łódź, Inst. Gen. Chem., PL-90924 Łódź, Poland): Thermal decomposition of potassium, rubidium and caesium fluoroantimonates (III). *Thermochim. Acta* 43 (1981) 173
- PTASZYŃSKI, B. (Tech. Univ. Łódź, Inst. Gen. Chem., PL-90924 Łódź, Poland): Studies on thermal decomposition of rubidium and caesium halogenide complexes of antimony(III). *Polish J. Chem.* 54 (1980) 1671
- PYLDME, M. E., PYLDME, Y. K., TYNSUAADU, K. O., VEIDERMA, M. A. (Tallin Polytech. Inst., Tallin, 200026 ESSSR): Thermal dehydration of  $\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$  and  $\text{Mg}(\text{H}_2\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$  and their mixtures with potassium chloride and silicic acid additions. *Zh. Neorg. Khim.* 26 (1981) 58 (in Russian)
- PYSIAK, J., GLINKA, A. (Warsaw Tech. Univ., Inst. Chem., Plock Branch, PL-09400 Plock, Poland): Thermal decomposition of basic aluminium potassium sulphate. I. Stages of decomposition. *Thermochim. Acta* 44 (1981) 21
- PYSIAK, J., GLINKA, A. (Warsaw Tech. Univ., Inst. Chem., Plock Branch, PL-09400 Plock, Poland): Thermal decomposition of basic aluminium potassium sulphate. II. Kinetics of the reaction. *Thermochim. Acta* 44 (1981) 29
- PYSIAK, J., GLINKA, A. (Warsaw Tech. Univ., Inst. Chem., Plock Branch, PL-09400 Plock, Poland): Thermal decomposition of basic aluminium potassium sulphate. III. General regularities of thermal dissociation. *Thermochim. Acta* 44 (1981) 101
- QUAST, H., KEES, F. (Univ. Würzburg, Inst. Organ. Chem., D-8700 Würzburg, GFR): Thermischer Zerfall isomerer Dihydro-1,3,4-thiadiazol-1,1-dioxide. *Chem. Ber.* 114 (1981) 802
- RAEMY, A. (Nestlé Prod. Tech. Assistance Co. Ltd., Dept. Res., CH-1814 La Tour de Peilz, Switzerland): Differential thermal analysis and heat flow calorimetry of coffee and chicory products. *Thermochim. Acta* 43 (1981) 229
- RAJESHWAR, K., JONES, D. B., DU BOW, J. B. (Colorado State Univ., Dept. Elect. Engrn., Ft. Collins, Colo., 80523 USA): Characterization of oil shales by differential scanning calorimetry. *Anal. Chem.* 53 (1981) 121
- RAMACHANDRAN, N., CHAKRABARTY, D. K. (Indian Inst. Technol., Dept. Chem., Solid State Lab., Bombay, 400076 India): Thermogravimetric and Mössbauer investigation of the reduction of  $\alpha\text{-Fe}_2\text{O}_3$  and  $\text{Li}_{0.5}\text{Fe}_{2.5}\text{O}_4$ . *Proc. Indian Acad. Sci. Chem. Sci.* 89 (1980) 533
- RANDZIO, S. L. (Polish Acad. Sci., Inst. Phys. Chem., Ul. Kasprzaka 4452, PL-01224 Warszawa, Poland): An experimental verification and comparison of the use of passive and active thermal-electronic networks in dynamic calorimetric measurements. *Thermochim. Acta* 44 (1981) 1
- RAO, B. K., SUBHADRA, K. G., SIRDESMUTH, D. B. (c/o D. B. Sirdesmuth, Kakatiya

- Univ., Dept. Phys., Warangal 506009 Andhra Pradesh, India): Some thermal data on  $\text{Bi}_4(\text{GeO}_4)_2$  and  $\text{Bi}_4(\text{SiO}_4)_3$  crystals. *Indian J. Pure Appl. Phys.* 19 (1981) 87
- RAPER, E. S., NOWELL, I. W. (Newcastle Polytech., Sch. Chem. and Life Sci., Newcastle Tyne NE1 8ST, England): Coordination compounds of 1-methylimidazoline-2-(3H)-thione and metal nitrates [ $\text{M}(\text{II})=\text{Co}$ ,  $\text{Zn}$  and  $\text{Cd}$ ]. A spectroscopic, thermal analysis and X-ray diffraction study. *Inorg. Chim. Acta* 43 (1980) 165
- REDDY, G. O., MOHAN, V. K., MURALI, B. K. M., CHATTERJEE, A. K. (Idl Chem. Ltd., Div. Res. and Dev., Hyderabad, India): Thermal studies on tetrazole derivatives using a differential scanning calorimeter. I. *Thermochim. Acta* 43 (1981) 61
- RICE, R. W., POHANKA, R. C., McDONOUGH, W. J. (USN, Res. Lab., Washington, D.C., 20375 USA): Effect of stresses from thermal expansion anisotropy, phase transformations, and second phases on the strength of ceramics. *J. Amer. Ceram. Soc.* 63 (1980) 703
- RICHARD, C., MARTIN, R. (Univ. Nancy, 1 CNRS, Equipe Rech. 136 Chim. Radicale Lab., F-54037 Nancy, France): Influence of butadiene-1,3 on ethanal pyrolysis at 495 °C. *Int. J. Chem. Kinet.* 12 (1980) 1021
- RODANTE, F., BONICELLI, M. G., CECCARONI G. (Fac. Ingegneria Rome, Ist. Chim., Via Castro Laurenziano 7, Rome, Italy): Enthalpic and entropic contributions to substituent effects for the ionization of meta- and para-hydroxybenzoic acids in water-dimethylsulfoxide mixtures at 25 °C. *Thermochim. Acta* 43 (1981) 199
- ROEDIG, A., FLEISCHMANN, K. (Univ. Würzburg, Inst. Organ. Chem., D-8700 Würzburg, GFR): Umlagerungen vinyloger Carbonsäurechloride. XXVII. Darstellung und thermisches Verhalten von chlor- und organythiosubstituierten Z,Z-2,4-Pentadien-thiosäure-S-estern. *Chem. Ber.* 114 (1981) 159
- ROGERS, F. E., OHLEMILLER, T. J. (Princeton Univ., Dept. Mech. and Aerosp. Engn., Princeton, N.J., 08544 USA): Pyrolysis kinetics of a polyurethane foam by thermogravimetry: a general kinetic method. *J. Macromol. Sci. A* 15 (1981) 169
- ROSSAT-MIGNOD, J., BURLET, P., BARTHOLIN, H., TCHAPOUTIAN, R., VOGT, O., VETTIER, C., LAGNIER, R. (CEN, DRF, Diffract. Neutron Lab., F-38041 Grenoble, France): A neutron, magnetization and specific heat study of the unusual magnetic properties of UAs. *Physica B* 102 (1980) 177
- ROSSAT-MIGNOD, J., BURLET, P., BARTHOLIN, H., VOGT, O., LAGNIER, R. (CEN, Dept. Rech. Fondamentale, Diffract. Neutron Lab., F-38041 Grenoble, France): Specific heat analysis of the magnetic phase diagram of CeSb. *J. Phys. C* 13 (1980) 6381
- ROUW, A. C., SOMSEN, G. (c/o G. Somsen, Free Univ., Dept. Chem., NL-1081 HV Amsterdam, Netherlands): The solvation of some alcohols in binary solvents: enthalpies of solution and enthalpies of transfer. *J. Chem. Thermodyn.* 13 (1981) 67
- ROY, S. K. D., MITRA, S. S., GHORAI, S. K. (Indian Inst. Technol. Ctr., Cryogen. Engn., Kharagpur, 721302 W. Bengal, India): Temperature and frequency dependence of dielectric properties of  $\text{CoSiF}_6 \cdot 6\text{H}_2\text{O}$  around its structural phase transition temperature. *Indian J. Pure Appl. Phys.* 18 (1980) 981
- SACCO, A., PETRELLA, G., CASTAGNOLO, M., DELL'ATTI, A. (Univ. Bari, Inst. Phys. Chem., I-70124 Bari, Italy): Excess volumes and viscosity of water-sulfolan mixtures at 30, 40 and 50 °C. *Thermochim. Acta* 44 (1981) 59
- SAEGUSA, T., MIYAMOTO, M., KIMURA, Y. (Kyoto Univ., Fac. Engn., Dept. Synthet. Chem., Kyoto, 606 Japan): Thermal polymerization of spiroacyloxyphosphoranes and the related cooligomerization between cyclic phosphorus(III) compounds and  $\alpha$ -hydroxy acids. *Macromolecules* 14 (1981) 115
- SALEH, A. F., DUBEY, K. S. (c/o K. S. Dubey, Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Lattice thermal conductivity of polyethylene in the temperature range 1–20 K. *Indian J. Pure Appl. Phys.* 19 (1981) 73
- SALEH, A. F., DUBEY, K. S. (Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Effect of empty spaces on the lattice thermal conductivity of polyethylene at low temperatures. *Acta Phys. Pol. A* (1980) 521
- SANDHU, R. S., KUMAR, R. (Guru Nanak Dev. Univ., Dept. Chem., Amritsar 143005 Punjab, India): Complexation

- reaction of metal ions with peptide systems. IX. A thermodynamic study of the complexation reaction of N-benzoyl-glycyl-glycine with some divalent metal ions. *Thermochim. Acta* 43 (1981) 103
- SASTRY, M. D., RAO, U. R. K., MADRASWALA K. H., JOSHI, B. D. (Bhabha Atomic Res. Ctr, Div. Radiochem., Bombay, 400085 India): Differential scanning calorimetric and Mössbauer studies of phase transitions in  $[N(CH_3)_4]_2FeCl_4$ . *J. Phys. C* 14 (1981) 615
- SAWHNEY, S. S., BHATIA, B. M. L. (Dav. Postgrad. Coll., Dept. Chem., Dehra Dun 248001 Uttar Pradesh, India): Evaluation of the kinetics of the non-isothermal decomposition of metal chelates of lapachol with yttrium(III), indium(III), samarium(III), gadolinium(III) and dysprosium(III) from thermogravimetric curves. *Thermochim. Acta* 43 (1981) 243
- SCHANK, K., WERNER, F. (Univ. Saarland, Fachrichtung Organ. Chem. 14.1, D-6600 Saarbrücken, GFR): Thermolyse von Diaryldisulfidtrioxiden. *Phosphor Sulfur* 8 (1980) 335
- SCHERAGA, H. A. (Cornell Univ., Baker Lab. Chem., Ithaca, N.Y., 14853 USA): Phase transitions in synthetic polymers of amino acids, and their relation to protein folding. *Ferroelectrics* 30 (1980) 157
- SCHLOSBERG, R. H., DAVIS, W. H., ASHE, T. R. (Exxon Res. and Engn. Co., Corp. Res. Labs., POB 45, Linden, N.J., 07036 USA): Pyrolysis studies of organic oxygenates. 2. Benzyl phenyl ether pyrolysis under batch autoclave conditions. *Fuel* 60 (1981) 201
- SCHLÄTER, M., VARMA, C. M. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA): Heats of formation of alloys of s-p electronic materials. *Phys. Rev. B* 23 (1981) 1633
- SCOTT, E. R. D., RAJAN, R. S. (Univ. New Mexico, Inst. Meteorit, Albuquerque, N.M., 87131 USA): Metallic minerals, thermal histories and parent bodies of some xenolithic, ordinary chondrite meteorites. *Geochim. Cosmochim. Acta* 45 (1981) 53
- SCOTT, L. T., KIRMS, M. A., MINTON, M. A. (Univ. Nevada, Dept. Chem., Reno, Nev., 89557 USA): Thermal rearrangements of aromatic compounds. 2. Isomerization of azulene-3a- $^{13}C$  to naphthalane- $^{13}C$ . *Croat. Chem. Acta* 53 (1980) 643
- SEREZHKIN, V. N., RASSHCHEPKINA, N. A., SEREZHKINA, L. B.: Thermal decomposition of zinc uranyl sulfate and zinc uranyl selenate. *Sov. Radiochem. transl. Radiochim.* 22 (1980) 31
- SEYMOUR, R. J., DOUGHERTY, J. P., SHAULOV, A. (Cunt. City Coll., Dept. Phys., New York, N.Y., 10031 USA): Investigation of the relationship between the spontaneous polymerization and permittivity in TGS and DTGF B. *Ferroelectrics* 29 (1980) 163
- SHAPLYGIN, I. S., LAZAREV, V. B. (N. S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR): Study of SrOsO<sub>3</sub> thermal decomposition in the air. *Zh. Neorg. Khim.* 26 (1981) 46 (in Russian)
- SHIKANOV, A. S., SKLIZKOV, G. V., ZOREV, N. N. (P. N. Lebedev Phys. Inst., Moscow, USSR): Effect of non-linear thermal conductivity in a shock wave front at a velocity of  $10^7$ – $10^8$  cm/s. *Phys. Lett. A* 81 (1981) 343
- SIDORENKO, V. I., VASYUKOVA, N. I., KUZAYEV, A. I., NEKRASOV, Y. S., VALETSKII, P. M., VINOGRADOVA, S. V., KORSHAK, V. V. (Acad. Sci. USSR, Inst. Organoelement. Cpd., Moscow, V-71 USSR): On thermo-oxidative transformations of cloro-carborenes-12. *Vysokomol. Soedin. B* 22 (1980) 884 (in Russian)
- SIMON, J., ANDROSITS, B., SZALAY, B., LANTOS, S. (Inst. Gen. and Anal. Chem., Techn. Univ., H-1521 Budapest, Hungary): The application of derivatograph in flame retardation research. Determination of ignition temperature. *Hung. Sci. Instr.* 1980/48, 1
- SINGH, R. N. (Bhagalpur Univ., Dept. Phys., Bhagalpur, 812007 India): Free energy and heat of mixing of alloys. *J. Phys. F* 11 (1981) 389
- SINHA, S. K., LANDER, G. H., SHAPIRO, S. M., VOGL, O. (Argonne Natl. Lab., Argonne, Ill., 60439 USA): Studies of the phase transitions in UAs by neutron scattering. *Physica B + C* 102 (1980) 174
- SLADKOVA, T. A., TITOVA, S. N., DOMRACHEV G. A., BELOVA, N. N., RAZUVAEV, G. A. (N. D. Zelinskii Organ. Chem. Inst., Moscow, USSR): Selective hydrogenation of acetylene compounds on the Pd/Al<sub>2</sub>O<sub>3</sub> catalyst prepared by the thermal decomposition of bis( $\pi$ -allylpalladium)dichloride.

- Dokl. Akad. Nauk SSSR* 255 (1980) 660 (in Russian)
- SLÁMA, Z., ŠVEJDODOVÁ, E., MAJER, J. (Res. Inst. Macromolec. Chem., CS-65649 Brno, Czechoslovakia): Kinetics of thermooxidation and photooxidation of poly(oxy-2,6-dimethyl-1,4-phenylene). I. Analysis of products. *Makromol. Chem.* 181 (1980) 2449
- SMITH, T. F., BRISTOW, G. K., BOUGHTON, C. V., HUDSON, P. R. W. (Monash Univ., Dept. Phys., Clayton, Vic., 3168 Australia): Specific heat capacity of  $\text{Fe}_{3-x}\text{Mn}_x\text{Si}$  compounds. *J. Phys. F* 10 (1980) 2876
- SOMMER, F., LEE, J. J., PREDEL, B. (Max Planck Inst. Met. Forsch., Inst. Werkstoffwissenschaft., D-7000 Stuttgart, 1 GFR): Temperaturabhängigkeit der Mischungsenthalpien flüssiger Magnesium-Blei- und Magnesium-Zinn-Legierungen. *Z. Metallk.* 71 (1980) 818
- SPRINGER, H., BRINKMANN, U., HINRICHSEN, G. (Univ. Dortmund, Chem. Tech. Abt., Arbeitsgruppe Kunststoffe, D-4600 Dortmund, 50 GFR): Differential thermal analysis of drawn PET-films. *Colloid Polym. Sci.* 259 (1981) 38
- STEINER, P., HUFNER, S. (Univ. Saarland, Fachbereich Phys., D-6600 Saarbrücken, GFR): Thermochemical analysis of  $\text{Pd}_x\text{Ar}_{1-x}$  alloys from XPS core-level binding energy shifts. *Solid State Commun.* 37 (1981) 79
- STOPPE, A. G., KHRIPLOVICH, L. M., VOROBEV, A. F. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Study  $\text{Y}_{1-x}\text{Ca}_x\text{CrO}_3$  heat capacity in 4.6–310K temperature range. *Zh. Fiz. Khim.* 55 (1981) 248 (in Russian)
- STÖSSER, R., LÜCK, R., BLUMENTHAL, G., WEGNER, G. (Humboldt Univ., Sekt. Chem., DDR-1040 Berlin): EPR-spektroskopische Untersuchung von Kaolin Caminau, seiner Entwässerungsprodukte sowie der Chlorierungsprodukte des Metakaolins. *Z. Anorg. Allg. Chem.* 472 (1981) 220
- STRUIK, L. C. E. (TNO, Div. Technol. Soc., Delft, Netherlands): Physical aging and thermal history effects in PVC, both above and below  $T_g$ . *Pure Appl. Chem.* 53 (1981) 467
- SUBRAMANIAM, B. (Jiwaji Univ., Sch. Studies Phys., Gwalior, 474002 India): Temperature dependence of Debye temperature of KCl-KBr mixed system. *Indian J. Phys. A* 54 (1980) 109
- SUGANUMA, M., KONDOW, T., MIZUTANI, U. (Nagoya Univ., Fac. Engn., Dept. Crystalline Mat. Sci., Nagoya, Aichi, 464 Japan): Low-temperature specific heats of rubidium-graphite intercalation compounds. *Phys. Rev. B* 23 (1981) 706
- SURI, S. K., MAHESHWARI, R. C. (Indian Inst. Technol., Dept. Chem., New Delhi, 11029 India): Molar excess enthalpies of arsenic tribromide + benzene, + cyclohexane, and + tetrachlormethane at 313.15 K. *J. Chem. Thermodyn.* 12 (1980) 1191
- SUVOROVA, A. I., ANDREYEVA, V. M., IKANINA, T. V., ZYRYANOVA, L. K., SOROKINA, I. I., TAGER, A. A. (A. M. Gorkii State Univ., Sverdlovsk, USSR): The phase diagrams for the systems: polyvinylchloride/plasticizers. *Vysokomol. Soedin. B* 22 (1980) 910 (in Russian)
- SVOBODA, V., UCHYTILOVÁ, V., MAJER, V., FICK, J. (Prague Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague 6 Czechoslovakia): Heats of vaporization of alkyl esters of formic, acetic, and propionic acids. *Collect.* 45 (1980) 3233
- SZÉKELY, T., TILL, F., VÁRHÉGYI, G., BLAZSÓ, M. (Hungarian Acad. Sci., Inorgan. Chem. Res. Lab., H-1112 Budapest, Hungary): Description of the thermal degradation of polymers and copolymers by the use of complex thermal analysis. *J. Polym. Sci. Polym. Symp.* 67 (1980) 115
- SZENDREI, T., VAN BERGE, P. C. (Rand Afrikaans Univ., Dept. Chem., P. O. B. 524, Johannesburg, 2000 South Africa): Thermogravimetry and evolved gas analysis of the reduction of hematite ( $\text{Fe}_2\text{O}_3$ ) with graphite. *Thermochim. Acta* 44 (1981) 11
- TAKADA, T., WATANABE, T. (Hokkaido Univ., Fac. Sci., Dept. Phys., Kita-ku, Sapporo, Hokkaido 060 Japan): Specific heat near the lambda point in  $^4\text{He}$  and  $^3\text{He}$ - $^4\text{He}$  mixtures: test of universality of the critical exponent and the amplitude ratio, and observation of the critical-tricritical crossover effect. *J. Low Temp. Phys.* 41 (1980) 221

- TAKAHASHI, T., KUWABARA, K., OHYANAGI, H. (Nagoya Univ., Fac. Engn., Dept. Appl. Chem., Nagoya, Aichi, 464 Japan): Synthesis of potassium beta-alumina by thermal decomposition of a complex. *J. Applied Electrochem.* 11 (1981) 77
- TAKAISHI, T., KAMEI, Y., YUSA, A., OHGUSHI, T. (c/o T. Ohgushi, Toyohashi Univ. Technol., Sch. Mat. Sci., Toyohashi, Aichi, 440 Japan): Isobaric thermogravimetry of the gas encapsulation with molecular sieves A. *Bull. Chem. Soc. Jap.* 54 (1981) 45
- TAMURA, K., MURAKAMI, S., FUJISHIRO, R. (Osaka City Univ., Fac. Sci., Dept. Chem., Sumiyoshi-ku, Osaka, 558 Japan): Excess enthalpies of (cyclohexanone + aromatic hydrocarbon), methylcyclohexane + aromatic hydrocarbon), and (methyl cyclohexane + cyclohexanone) at 298.15 K. *J. Chem. Thermodyn.* 13 (1981) 47
- TANAKA, H., OHSHIMA, S., ICHIBA, S., NEGITA, H. (Hiroshima Univ., Fac. Sch. Educ., Chem. Lab., Hiroshima, 730 Japan): The kinetic deuterium isotope effect in the thermal dehydration of boric acid. *Thermochim. Acta* 44 (1981) 37
- TANAKA, T., SUN, S. T., NISHIO, I., SWISLOW, G., SHAH, A. (MIT, Dept. Phys., Cambridge, Mass., 02139 USA): Phase transitions in ionic gels. *Ferroelectrics* 30 (1980) 97
- TAYLOR, R., MACDONALD, A. H., SHUKLA, R. C. (Natl. Res. Council Canada, Dept. Pys., Ottawa, Ontario, K1A OR6 Canada): Identification of phason anomalies in the low-temperature specific heat of the alkali metals. *Phys. Rev. Lett.* 46 (1981) 434
- TEKUCHEV, V. V., STREMOUSOV, V. I. (A. S. Seramifovich State Teachers Inst., Volgograd, USSR): Experimental data on heat conductivity of liquid metal systems of aluminium according to acoustic measurements. *Zh. Fiz. Khim.* 54 (1980) 3038 (in Russian)
- TERAUCHI, H., MAEDA, H., KAMIJO, N. (Kwansei-Gakuin Univ., Dept. Phys., Nishinomiya, Hyogo, 662 Japan): Thermal instability in a plastic crystal. *J. Chem. Phys.* 73 (1980) 5901
- THOUREY, J., LIPS, B., PERACHON, G. (Inst. Natl. Sci. Appl. Lyon, Thermochim. Minerale Lab., CNRS, Phys. Chim. Minerale Lab. 116, F-69621 Villeurbanne, France): Enthalpies de formation de l'acide fluorhydrique dans les solutions ternaires HF(HCl)H<sub>2</sub>O à concentration constante en HF. *J. Fluorine Chem.* 17 (1981) 27
- THOUREY, J., LIPS, B., PERACHON, G. (Inst. Natl. Sci. Appl. Lyon, Thermochim. Minerale Lab., CNRS, Phys. Chim. Minerale Lab. 116, F-69621 Villeurbanne, France): II. Enthalpies de dilution de l'acide chlorhydrique dans les solutions ternaires HF(HCl)H<sub>2</sub>O à concentration constante en HF. *J. Fluorine Chem.* 17 (1981) 27
- THOUREY, J., LIPS, B., PERACHON, G. (Inst. Natl. Sci. Appl. Lyon, Thermochim. Minerale Lab., CNRS, Phys. Chim. Minerale Lab. 116, F-69621 Villeurbanne, France): III. Enthalpies de formation de l'acide fluorhydrique dans les solutions ternaires HF(HCl)H<sub>2</sub>O. *J. Fluorine Chem.* 17 (1981) 41
- TIMPE, H. J., WESCHKE, W. (TH Carl Schorlemmer, Sekt. Chem., Geusaer Str., DDR-42 Leuna Merseburg, GDR): Thermische und photochemische C—O-Bindungs-spalten in EDA-Komplexen von Benzylarylethern. *Z. Chem.* 20 (1980) 445
- TKACHENKO, V. I., VOROSHILOV, Y. V., KOSTYUKOV, I. V., FANTICH, A. M. (Uzhgorod State Univ., Uzhgorod, Ukr-SSR): Enthalpies of formation and heat capacities of TiGaS<sub>2</sub> and TiGaSe<sub>2</sub>. *Dopov. Akad. Nauk Ukr. SSR B* (1980) 64 (in Russian)
- TOUZELIN, B. (Univ. Paris, 11 Composes Nonstoichiometr. Lab., F-91405 Orsay, France): Etude du système Fe-Co-O à 900°C par thermogravimétrie et diffraction des rayons X à haute température. *J. Less-Common Metals* 77 (1981) 11
- TROFIMOV, B. A., LAVROV, V. I., PERSHINA, L. N., STANKEVICH, V. K. (Acad. Sci. USSR, Inst. Organ. Chem., Irkutsk, USSR): A study of the hydrolytic and thermal stability of an oligo(diethylene-glycol acetal). *J. Appl. Chem. transl. Zh. Prikl. Khim.* 53 (1980) 693
- TSUCHIDA, T., SAKATA, A., FURUCHI, R., USHII, T. (Hokkaido Univ., Fac. Engn., Dept. Appl. Chem., Sapporo, Hokkaido 060, Japan): Reactivity of amorphous aluminas prepared by the thermal decomposition of aluminium chloride and nitrate. *Thermochim. Acta* 43 (1981) 91

- TSVETKOV, V. G., ALEKSANDROV, Y. A. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Enthalpies of ferrocene reaction with bromine and iodine. *Zh. Obshch. Khim.* 50 (1980) 2725 (in Russian)
- TURCHANIN, A. G. (Kramatorsk Ind. Inst., Kramatorsk, UkrSSR): Rnthalpies of the formation of thermal vacancies in cubic carbides of transition metals. *Zh. Fiz. Khim.* 54 (1980) 2962 (in Russian)
- TURNER, L. R. (Argonne Natl. Lab., Argonne, Ill., 60439 USA): Safety of superconducting magnets for fusion thermal analysis of large cryostable magnets. *IEEE Trans. Magn.* 17 (1981) 463
- UDUPA, M. R. (Indian Inst. Technol., Dept. Chem., Madras, 600036 India): Thermal behaviour of thallium(I) halates. *Indian J. Chem. A* 19 (1980) 1014
- ULASHCHIK, A. N., CHEKHOVSKI, V. Y., ROMANOV, A. I., SMIRNOVA, L. G., STAVROVSKII, G. I. (Acad. Sci. USSR, Inst. High Temp., Moscow, V-71 USSR): Thermal conductivity and integral hemispherical radiating region. *High Temp. transl. Teplofiz. Vysok. Temp.* 18 (1980) 406
- USHA, M. G., SUBBA RAO, M., NARAYANAN KUTTY, T. R. (Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., Bangalore, 560012 India): Thermal decomposition of rare-earth trioxalatocobaltates. *Thermochim. Acta* 43 (1981) 35
- VAAL, A. A., KONUSOV, V. F. (V. D. Kuznetsov Engn. Phys. Inst., Tomsk, USSR): Study of mechanical properties of alkali-earth metal oxides. 2. Conditions and phase transitions of equations. *Izv. Vyssh. Uch. Zav.* (1980) 78 (in Russian)
- VAN BERKUM, J. G., HAKVOORT, G., REEDIJK, J. (Delft Univ. Technol., Dept. Chem., NL-2600 Ga Delft, Netherlands): Thermal analysis of Cu(II) imidazole coordination compounds. *J. Thermochim. Acta* 43 (1981) 49
- VANDERZEE, C. E., WAUGH, D. H., HAAS, N. C. (Univ. Nebraska, Dept. Chem., Lincoln, Nebr., 68588 USA): The influence of grinding stress and thermal annealing on the enthalpy of solution of tris(hydroxymethyl)aminomethane and its use as a test substance in solution calorimetry. *J. Chem. Thermodyn.* 13 (1981) 1
- VANSIVER, S. W. (Univ. Wisconsin, Madison, Wis., 53706 USA): Enthalpy stability criterion for magnets cooled with superfluid helium-II. *IEEE Trans. Magn.* 17 (1981) 747
- VARGA, J., SOLTI, A., MENCZEL, J. (Tech. Univ. Budapest, Lehrstuhl Kunststoff und Gummid., H-1521 Budapest, Hungary): Crystallization and melting of polymers. 2. Melting of high-pressure polyethylene. *Period. Polytech.* 23 (1979) 261
- VASILEV, V. P., VASILEVA, V. N., DMITRIEVA, N. G., KOKURIN, N. I. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Standard enthalpy of the formation of magnesium(II) ion in aqueous solution. *Zh. Neorg. Khim.* 26 (1981) 30 (in Russian)
- VASILKOVA, I. V., KOZHINA, I. I., PYATUNIN, M. D., STEPANOVA, S. I.: Investigation of Cu-Rb-AgJ system by the DTA and X-ray methods. *Vestn. Leningr. Univ.* (1980) 50 (in Russian)
- VASIN, B. L., SAVVINA, R. M., SHISHKINA, L. I.: Calculation of thermal regime of receiving body of calorimetric measurer taking into account heat-exchange processes. *High Temp. transl. Teplofiz. Vysok. Temp.* 18 (1980) 465
- VASSOS, B. H., RODRIGUEZ, R. A. (Univ. Puerto Rico, Dept. Chem., Rio Piedras, P. R., 00931 USA): Differential thermometric titration apparatus. *Anal. Chem.* 53 (1981) 135
- VENUGOPALAN, C. R., NAIR, T. D. R. (Univ. Calicut, Dept. Chem., Calicut, 673635 Kerala, India): Kinetics and catalysis of thermal decomposition of potassium chlorate and potassium bromate. A thermo-gravimetric study. *J. Indian Chem. Soc.* 57 (1980) 1191
- VILCU, R., CIOCHINĂ, A. (Polytech. Inst., Dept. Phys. Chem., Bd. Republiei 13, Bucharest, Romania): An alternative to the transient hot-wire method for thermal conductivity measurements of fluids. *Rev. Roum. Chim.* 25 (1980) 1113
- VILLAIN, J., GORDON, M. B., ROSSAT-MIGNOD, J. (CEN, DRF, Diffract. Neutron Lab., F-38041 Grenoble, France): Phase diagram of cerium antimonide. *Physica B* 102 (1980) 262

- VIRTANEN, P. O. I., SAMMALKIVI, R. (Univ. Oulu, Dept. Chem., SF-90570 Oulu 57, Finland): Vanadium(V). IV. The enthalpies of dilution of aqueous solutions of sodium and ammonium metavanadates. *Finn. Chem. Lett.* (1980) 164
- VISHNEVETSKAYA, I. A., KUDRYASHEVA, L. V., ORDAN'YAN, S. S., PETROV, V. A. (Acad. Sci. USSR, Inst. High Temp., Moscow, V-71 USSR): Thermal conductivity and electrical resistance of zirconium carbides in the region of homogeneity with high temperatures. *High Temp. transl. Teplofiz. Vysok. Temp.* 18 (1980) 414
- VYMAZAL, Z., VOLKA, K., CZAKÓ, E., STEPEK, J. (Tech. Univ. Prague, Dept. Polymers, CS-16628 Prague, 6 Czechoslovakia): Effect of stabilizers in the thermal treatment of PVC. IX. An investigation of the loss of Ba and Cd stearates from their equimolar mixture during static thermal stress of PVC. *Eur. Polym. J.* 17 (1981) 77
- WARNER, M., FLORY, P. J. (IBM Corp., Res. Lab., San Jose, Calif., 95193 USA): The phase equilibria in thermotropic liquid crystalline systems. *J. Chem. Phys.* 73 (1980) 6327
- WARTELL, R. M., BENIGHT, A. S. (Georgia Inst. Technol., Sch. Phys., Atlanta, Ga., 30332 USA): The helix-coil transition of DNA restriction fragments containing the lactose operon promoter sequence. *Ferroelectrics* 30 (1980) 59
- WATKINS, H. P., KOSKI, W. S. (Johns Hopkins Univ., Dept. Chem., Baltimore, Md., 21218 USA): Heats of formation of the ions  $\text{BrKr}^+$  and  $\text{CH}_3\text{BrKr}^+$ . *Chem. Phys. Lett.* 77 (1981) 470
- WEILL, A., HOFFBACH, M. J., BOSC, D. (Ctr. Natl. Etude Telecommun. CMG, BP 42, F-38240 Meylan, France): Controlled mechanothermal degradation of polypropylene in presence of stabilizers. *Colloid Polym. Sci.* 258 (1980) 1217
- WEINSTOCK, H., THOMPSON, C. W., OVERTON, W. C. (IIT, Dept. Phys., Chicago, Ill., 60616 USA): A method for measuring the low temperature thermal conductivity of thin wires. *Cryogenics* 21 (1981) 118
- WEIR, R. D., HALSTEAD, K. E., STAVELEY, L. A. K. (Univ. Oxford, Inorgan. Chem. Lab., Oxford OX1 3QR England): Calorimetric study of transitions in hexahydrated fluorosilicates  $\text{MSiF}_6 \cdot 6\text{H}_2\text{O}$ . *Faraday Discuss. Chem. Soc.* (1980) 202
- WHITE, M. A., GREEN, N. H., STAVELEY, L. A. K. (Univ. Oxford, Inorgan. Chem. Lab., Oxford, OX1 3QR England): The heat capacity of ammonium tetrafluoroborate from 9 to 294 K. *J. Chem. Thermodyn.* 13 (1981) 283
- WHITESIDES, G. M. (MIT, Dept. Chem., Cambridge, Mass., 02139 USA): The mechanism of thermal decomposition of dialkylbis(triethylphosphine)-platinum(II) complexes. *Pure Appl. Chem.* 53 (1981) 287
- WIECZOREK, S. A., KOBAYASHI, R. (c/o R. Kobayashi, Rice Univ., Dept. Chem. Engr., Houston, Tex., 77001 USA): Heats of vaporization of five polynuclear aromatic compounds at elevated temperatures. *J. Chem. Engr. Data* 26 (1981) 11
- WIEDEMEIER, H., CSILLAG, F. J. (Rensselaer Polytech. Inst., Dept. Chem., Troy, N.Y., 12181 USA): The decomposition and thermodynamic properties of  $\text{SnS}_2$ . *High Temp. Sci.* 12 (1980) 277
- WILLER, J., FRITSCH, G., LÜSCHER, E. (Tech. Univ. München, Dept. Phys. E 13, D-8046 Garching, FRG): Superconducting transition temperature of binary amorphous transition metal alloys. *J. Less-Common Metals* 77 (1981) 191
- WŁOSEWICZ, D., BARTKOWSKI, K., RAFALOWICZ, J., BALCEREK, K., LEJAROWSKI, E., LEJAROWSKA, Ł. (Polish Acad. Sci., Inst. Low Temp. and Struct. Res., PL-53529 Wrocław, Poland): Temperature dependence anomaly of the thermal conductivity of brasses. *Acta Phys. Pol. A* 58 (1980) 543
- WŁOSEWICZ, D., BARTKOWSKI, K., RAFALOWICZ, J. (Polish Acad. Sci., Inst. Low Temp. and Struct. Res., PL-53529 Wrocław, Poland): The principle of corresponding states for the thermal conductivity lattice component of brasses. *Acta Phys. Pol. A* 58 (1980) 551
- YANOVSKIY, V. K. (M. V. Lomonosov Univ., Moscow, 117234 USSR): Thermodynamical description of ferroelectric phase transition in  $\text{KNbO}_3$  crystals. *Fiz. Tverd. Tela* 22 (1980) 3714 (in Russian)

- YEFIMOV, A. I., DOLGAN, E. K.: Thermochemical investigation of crystalline and glassy alloys of the system selenium-tellurium. *Vest. Leningr. Univ.* (1980) 47 (in Russian)
- YONESE, M., TSUGE, H., KISHIMOTO, H. (Nagoya City Univ., Fac. Pharmaceut. Sci., Mizuho-ku, Nagoya, Aichi, 467 Japan): The Gibbs energies, enthalpies, and entropies of the dilution of aqueous sodium chondroitin-4 sulfate and 6-sulfate. *Bull. Chem. Soc. Jap.* 54 (1981) 20
- ZHOGIN, D. Y., KOSARUKINA, E. A., KOLESOV V. P., PROKUDIN, I. P., MELNICHENKO, B. A. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Heat capacity in 6–300 K range, phase conversions and thermodynamic functions of perfluorobicyclo-[4,4,0]-dec-1,6-ene. *Zh. Fiz. Khim.* 55 (1981) 98 (in Russian)
- ZHURBENKO, V. G., NEVROVSKII, V. A. (All Union Metrol. Serv. Res. Inst., Moscow, USSR): Thermal process on vacuum gap electrodes and initiation of electric breakdown. 1. Thermal instability of cathodal microprotrusions. *Zh. Tekhn. Fiz.* 50 (1980) 2532 (in Russian)
- ZHURBENKO, V. G., NEVROVSKII, V. A. (All Union Metrol. Serv. Res. Inst., Moscow, USSR): Thermal processes on vacuum gap electrodes and initiation of electric breakdown. 2. Thermal instability of anode. *Zh. Tekhn. Fiz.* 50 (1980) 2540 (in Russian)
- ZOREV, N. N., SKILKOV, G. V., SHIKANOV, A. S. (P. N. Lebedev Phys. Inst., Moscow, USSR): Observation of the effect of non-linear thermal conductivity in a shock-wave front at velocities of  $10^7$ – $10^8$  cm/sec. *JETP Lett. transl. Pisma Zh. Eksp. Teor. Fiz.* 31 (1980) 574
- ZOTOV, Y. P., KRASHINA, N. N., BUKHARIN, V. E.: Determination of the composition and melting points of eutectics in refractory metal (alloy)-silicon systems. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 161 (1980) 584